

HCD-H50/H55/H1100

SERVICE MANUAL

HCD-H50, HCD-H55 and HCD-H1100 are the tuner, deck, CD and amplifier section in FH-B50CD, FH-B55CD and MHC-1100 respectively.


Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.



PHOTO: HCD-H55

US Model
Canadian Model
E Model
Australian Model
HCD-H50
AEP Model
HCD-H55
HCD-H1100



SPECIFICATIONS

AUDIO POWER

SPECIFICATIONS (US model)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION:

With 6 ohm loads, both channels driven, from 60Hz—20 kHz; rated 16 watts per channel minimum RMS power, with no more than 1% total harmonic distortion from 250 milliwatts to rated output.

Tuner Section

System FM stereo, FM/AM
superheterodyne tuner

FM tuner section

Tuning range 87.5—108MHz
Antenna Telescopic antenna
(HCD-H50/H55)
FM lead antenna
(HCD-H1100)
Antenna terminals 75 ohms unbalanced
Intermediate frequency 10.7MHz

AM tuner section

Tuning range
For US, Canadian model
MW: 530—1,710kHz
For IT model
MW: 522—1,611kHz
LW: 144—288kHz



CD Section	Model Name Using Similar Mechanism		HCD-H5
	CD Mechanism Name		CDM13A-5BD3
	Base Unit Name		BU-5BD3
DECK Section	Model Name Using Similar Mechanism		HCD-H5
	Tape Transport Mechanism Type	DECK A	TCM-180VA-N2
		DECK B	TCM-180VB-N2

For AEP, G and EE model

MW: 531—1,602kHz

LW: 153—279kHz

For E, EA and AUS model

MW: 531—1,602kHz

SW: 5.95—17.9MHz

Antenna AM loop antenna, External antenna terminals

Intermediate frequency 450kHz

Amplifier Section

Continuous RMS power output
20+20watts (6 ohms at 1kHz, 5% THD)

Peak music power output (E, EA and AUS model)
240 watts (6 ohms)

Inputs MIX MIC (minijack):
sensitivity 1mV, impedance 600 ohms

For HCD-H55/H1100

PHONO (Phono jack):
sensitivity 5 mV,
impedance 47 kilohms

— continued on next page —

COMPACT DISC DECK RECEIVER
SONY

For HCD-H50

Outputs

VIDEO/AUX (phono jack):
sensitivity 400 mV,
impedance 47 kilohms
HEADPHONES (stereo
minijack):
accepts headphones of
8 ohms or more.
SPEAKER:
accepts speakers of 6 to
16 ohms.

Compact Disc Player Section

System Compact disc digital audio
system
Laser Semiconductor laser
($\lambda=780$ nm)
Emission duration:
Continuous
Laser output Max. 44.6 μ W*
* This output is the value
measured at distance of about
200 mm from the objective
lens surface on the Optical
Pick-up Block.
Signal to noise ratio More than 95 dB
Dynamic range More than 90 dB

Cassette Deck Section

Recording system 4-track 2-channel stereo
Frequency response (DOLBY NR OFF)
60–13,000 Hz (± 3 dB),
using TYPE I cassette
(Sony HF-S)
60–14,000 Hz (± 3 dB),
using TYPE II cassette
Wow and flutter 0.1% WRMS $\pm 0.3\%$ (DIN)

General

Destination	Power requirements	Power consumption
US	120 V AC, 60 Hz	60 watts
Canadian	120 V AC, 60 Hz	80 watts
AEP	220–230 V AC, 50/60 Hz	60 watts
G, IT EE	220–230 V AC, 50 Hz	60 watts
E, EA, AUS	110–120 V or 220–240 V AC, adjustable, 50/60 Hz	60 watts

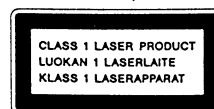
Dimensions

Approx. 615×285×255mm
(w/h/d)
(24 $\frac{1}{4}$ ×11 $\frac{1}{4}$ ×10 $\frac{1}{8}$ inches)
incl. projecting parts and
controls
Weight Approx. 11.2kg (24 lb 11 oz)
Accessories supplied
AM loop antenna (1)
Remote commander (1)
Sony SUM-3 (NS) batteries
(2)
FM lead antenna (1)
(HCD-H1100 only)

Design and specifications subject to change
without notice.

Note: G : Germany, IT: Italian,
EA : Saudi Arabia, AUS: Australian,
EE : East European

For HCD-H55/H1100



This appliance is classified as a
CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT
label is located on the rear
exterior.

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK \triangle OR DOTTED
LINE WITH MARK \triangle ON THE SCHEMATIC DIAGRAMS
AND IN THE PARTS LIST ARE CRITICAL TO SAFE
OPERATION. REPLACE THESE COMPONENTS WITH
SONY PARTS WHOSE PART NUMBERS APPEAR AS
SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUB-
LISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT
À LA SÉCURITÉ!

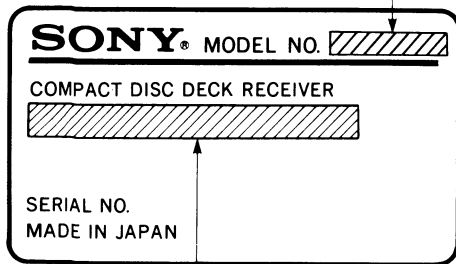
LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE \triangle
SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE
DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ
DE FONCTIONNEMENT. NE REMPLACER CES COM-
POSANTS QUE PAR DES PIÈCES SONY DONT LES
NUMÉROS SONT DONNÉS DANS CE MANUEL OU
DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1 SERVICING NOTES

MODEL IDENTIFICATION

— Specification Labels —

IT model: FH-B55CD
US, Canadian, E, EA, AUS model: HCD-H50
AEP, G, EE model: HCD-H55
AEP model: HCD-H1100



US model: AC: 120V~60Hz 60W
Canadian model: AC: 120V~60Hz 80W
AEP model: AC: 220-230V~50/60Hz
G, IT model: AC: 220-230V~50Hz
EE model: AC: 220-230V~50Hz 60W
E, EA, AUS model: AC: 110-120/220-240V~50/60Hz 60W

On operating voltage

Before operating the stereo system, check that the operating voltage of your system is identical with the voltage of your local power supply. **A**

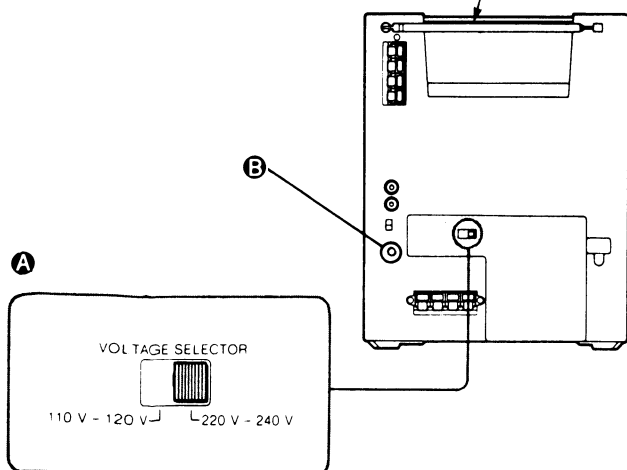
US, Canadian model	120V AC, 60Hz
AEP model	220-230V AC, 50/60Hz
G, IT, EE model	220-230V AC, 50Hz
E, EA, AUS model	110-120, 220-240V AC adjustable, 50/60Hz

On operation

- If the system do not operate due to power noise, press the system reset button at the rear. The system will resume operation. **B**

At this time, the system returns to the factory-set mode. Please set the clock, timer, or store stations again.

Telescopic antenna:
Use on HCD-H50/H55.



SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

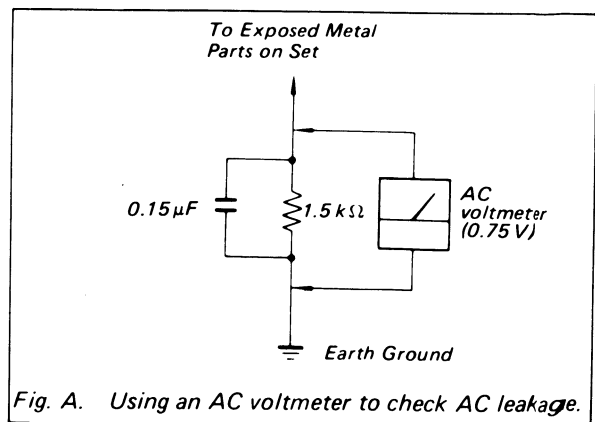
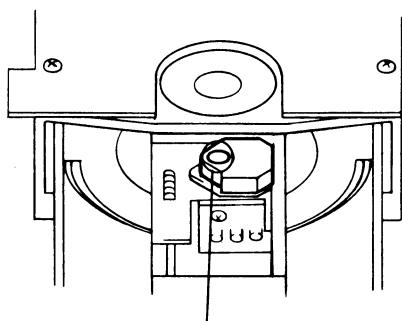


Fig. A. Using an AC voltmeter to check AC leakage.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

1. Make POWER switch on with no disc inserted and disc table closed.
2. Confirm that the following operation is performed while observing the objecting lens.



- ① Confirm that laser beam is spread.
- ② Up and down motion of the objective lens. (3 times)

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

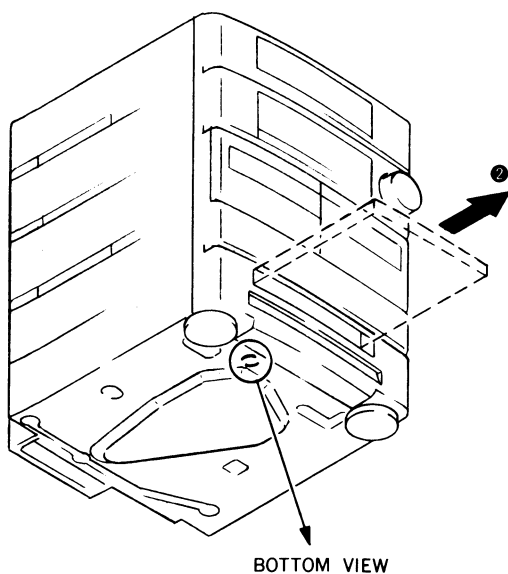
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

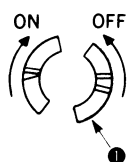
NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

HOW TO OPEN THE DISC TRAY WHEN POWER SWITCH TURNS OFF



FRONT
↑
↓
REAR



(DISC TRAY OPEN)

- (1) Insert to ① for tapering driver, etc., and turn in the direction of arrow OFF. (Disc tray open)
- (2) Tray as come out little of front panel, pull out in the direction of arrow ② by hand.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs a laser. Therefore, be sure to follow carefully the instructions below when servicing.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

1. Laser Diode Properties

- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: continuous
- Laser Output Power: less than 44.6 μ W*

* This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

2. During service, do not take the Optical Pick-up Block apart, and do not adjust the APC circuit. If there is a breakdown in the APC circuit (including laser diode), replace the entire Optical Pick-up Block (including APC board).

BESKYTTELSE AF ØJNE MOD LASERSTRÅLING UNDER SERVICE

I dette apparat anvendes laserlys. Derfor skal nedenstående instruktioner nøje følges under service.

Følg iverigt instruktionerne i servicemanualen.

ADVARSEL!!

Under service må øjnene ikke komme nær objektiv-linsen på den optiske pick-up enhed. I tilfælde af at det er nødvendigt at kontrollere udsendelsen af laserlys, skal det ske i en afstand af mere end 25 cm fra den optiske pick-up.

1. Laser-dioe data

- Materiale: GaAlAs
- Bølgelængde: 780 nm
- Udstråling: Kontinuerlig
- Laseroutput: Max. 0,4 mW*

* Målt i 1,6 mm afstand fra overfladen af objektiv-linsen på den optiske pick-up enhed.

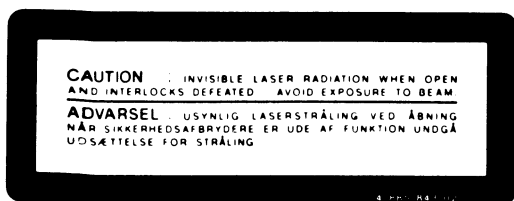
- Klassifikation: Klasse IIIb.

2. Adskil aldrig den optiske pick-up enhed under service, og juster ikke APC kredsløbet (Automatic Power Control). Hvis APC kredsløbet (incl. laser-dioden) bryder ned, skal hele den optiske pick-up enhed (incl. APC printkortet) udskiftes.

LASER ADVARSEL MÆRKNING

Følgende mærkning findes indvendig i apparatet:

1. Advarsel Mærkning

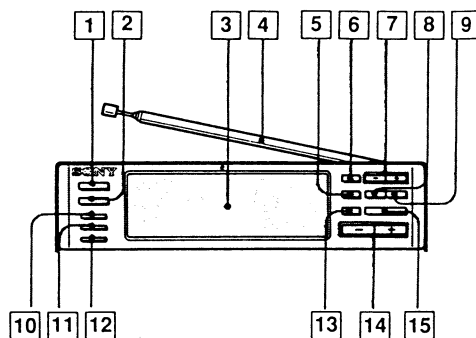


VAROITUS: Laite sisältää, laserdiodin, joka lähettää (näkyvät öntä) silmille vaarallista lasersäteilyä.

2-1. PARTS IDENTIFICATIONS

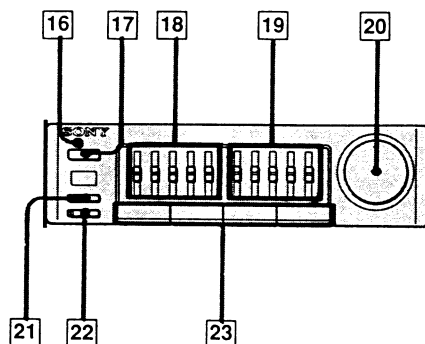
Tuner Section A

- 1 TIMER CONTROL button 53
- 2 SLEEP timer button 53
- 3 Display window
- 4 Telescopic antenna (HCD-H50/H55)
- 5 AUTO tuning button 24
- 6 BAND selector 24
- 7 TUNING —/+ buttons 24
- 8 MEMORY button 25
- 9 ENTER button 25
- 10 TIMER SET button 54
- 11 CLOCK DISPLAY button 20
- 12 CLOCK SET button 20
- 13 NEXT button 20 54
- 14 PRESET/TIMER +/- (preset station scan/time set) buttons 20 25 54
- 15 SHIFT (memory page select) button 25



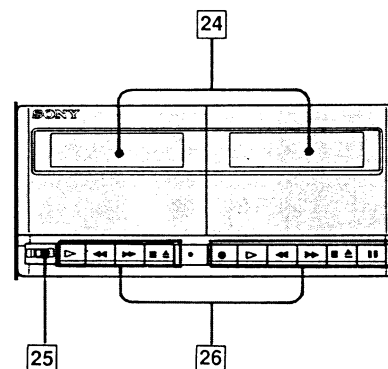
Amplifier Section B

- 16 STANDBY indicator
It is lit as long as the AC power cord is connected to a wall outlet.
- 17 POWER switch
- 18 5-band graphic equalizer for left channel 22
- 19 5-band graphic equalizer for right channel 22
- 20 VOLUME control 22
- 21 DBFB (Dynamic Bass Feedback) button 22
- 22 S-SUR effect button 22
- 23 Function selectors 18 24 30 42 45



Cassette Deck Section C

- 24 Cassette holders
- 25 DOLBY NR (Dolby Noise Reduction) switch 42
- 26 Tape operation buttons
▷ : PLAY (playback) button 42
◀◀ : REW (rewind) button 52
▶▶ : FF (fast forward) button 52
■▲ : STOP/EJECT button 42
● : REC (record) button and indicator 45
|| : PAUSE button 45

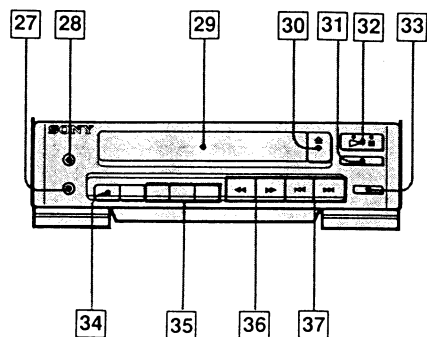


SECTION 2 GENERAL

This section is extracted from
instruction manual.

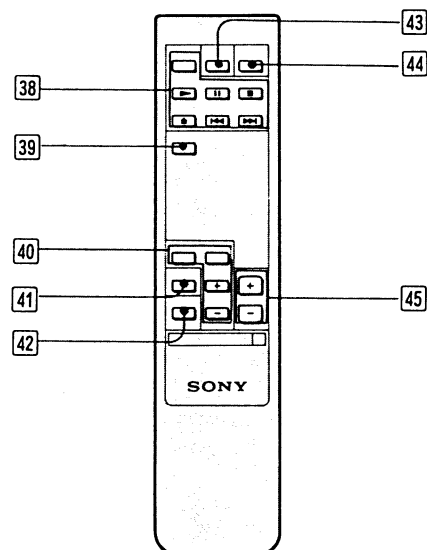
CD Player Section **D**

- 27 HEADPHONES jack (stereo minijack) 22
- 28 MIX MIC (microphone) jack (minijack) 60
- 29 Disc compartment
- 30 ▲ OPEN/CLOSE button
- 31 ■ (stop) button
- 32 ▷|| (play/pause) button and indicator
- 33 EDIT button 48
- 34 TIME display selector 40
- 35 PLAY MODE selectors
- REPEAT play button 36
- CONTINUE play button 35 38
- SHUFFLE play button 36
- PROGRAM play button 38
- 36 ◀◀ / ▶▶ (manual search) buttons 42
- 37 ||◀◀ / ▶▶|| (Automatic Music Sensor) buttons 42



Remote Commander **E**

- 38 CD player operation buttons
- 39 TAPE select button
- 40 Tuner operation buttons
- 41 PHONO select button
- 42 VIDEO/AUX select button
- 43 SLEEP timer button
- 44 POWER switch
- 45 VOL (volume) +/- control buttons



2-2. TUNER SECTION

Clock Setting

Setting the Clock

Example: Set to 9:25 in the morning.
When the AC power cord is connected, the display shows:
0: 00 for AEP, G, IT and EE model
AM 0: 00 for US, Canadian, E, EA and AUS model

- 1 Press **CLOCK SET**.
- 2 Set the hour with **PRESET/TIMER +/-** buttons
- 3 Press **NEXT**.
- 4 Set the minute with **PRESET/TIMER +/-** buttons.
- 5 Press **NEXT**.
The clock starts operating.

Information on the time

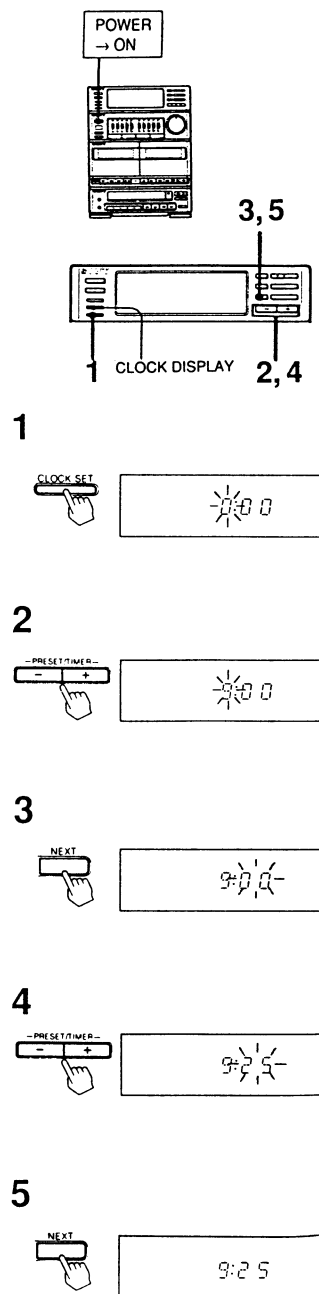
AEP, G, IT and EE model shows the time in 24-hour cycle.
US, Canadian, E, EA and AUS model shows the time in 12-hour cycle.

When a power interruption occurs

The power is backed up for approximately 1 day. If the power is recovered within 1 day, there is no need to reset the clock and timer. If it is longer than 1 day, both the clock and timer settings are erased, and "0:00" will flash on the display.

To check the present time while using the system

Press **CLOCK DISPLAY**.
The time display disappears after a few seconds.

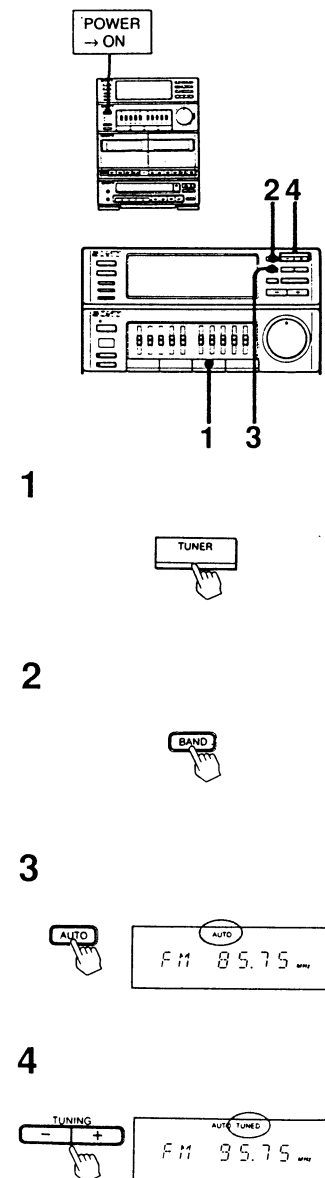


Radio

The automatic tuning allows you to receive stations whose signal is strong enough. When the signal is too weak, use the manual tuning.

Tuning in Automatically

- 1 Press **TUNER**.
- 2 Press **BAND** repeatedly until the desired band appears.
As you press **BAND**, the band changes as follows:
US, Canadian model:
FM → MW
AEP, G, IT and EE model:
FM → MW → LW
E, EA and AUS model:
FM → SW → MW
- 3 Press **AUTO**.
Make sure that **AUTO** appears in the display.
- 4 Select the station with **TUNING +** or **-**.



Tuning in Manually

- 1 Press **TUNER**.
- 2 Select band by pressing **BAND**.
- 3 Press **AUTO** so that **AUTO** disappears from the display.
- 4 Select station with **TUNING +** or **-**.

A total of 30 stations can be stored in any desired sequence, so that you can tune in the stored station directly by entering the memory page and number.

Storing Stations

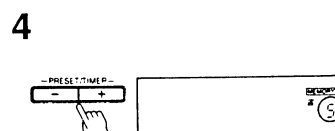
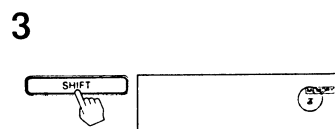
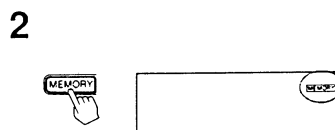
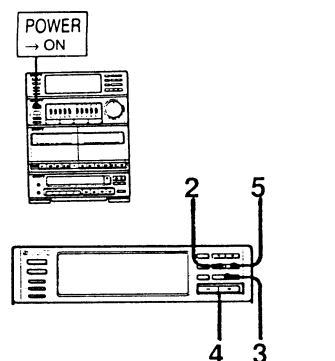
- 1 Tune in the desired station.
- 2 Press **MEMORY**.
MEMORY appears for several second.
- 3 While **MEMORY** is on, press **SHIFT** to select the memory page (A, B or C).
The memory pages (A, B or C) can be classified according to the music category, station band, etc.
- 4 While **MEMORY** is on, press **PRESET/TIMER** + or – to select the number (1 to 10).
- 5 Press **ENTER**.
MEMORY disappears, and the station is stored.
- 6 Repeat 1 to 5 for each stations to be stored.

If you cannot store a station successfully

Press **MEMORY** again so that **MEMORY** appears, and then select the desired page and number.
Be sure to operate while **MEMORY** is on (approx. 4 seconds).

When you have selected the wrong page and number

Press **MEMORY** and then select the correct one.



To Tune in a Preset Station

- 1 Press **SHIFT** to select memory page.
- 2 Press **PRESET/TIMER** + or – to select the desired number.

Indicator on the display

TUNED: Appears when a station of sufficient signal strength is tuned in.

STEREO: Appears when an FM stereo program of sufficient signal strength is received.

Antenna adjustment **A**

For FM reception, adjust the length and direction of the telescopic antenna.

(HCD-H50/H55)

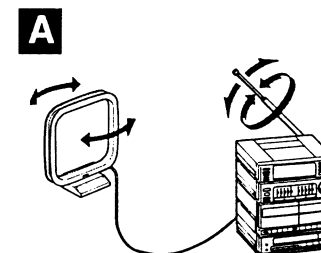
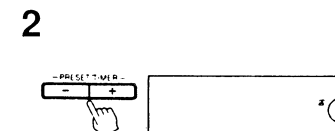
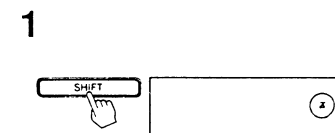
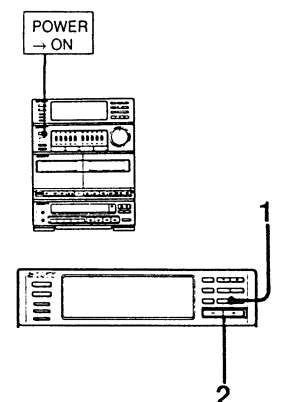
For MW, LW, and SW reception, find the best location of the AM loop antenna.

Can a previously stored station be erased?

No. Erasing only is not possible, but storing a new station erases the previous one.

Important

The stored stations remain for approximately 1 week even if no power is supplied (e.g. the power cord is disconnected, etc.). If they are erased, store the stations again.



2-3. AMPLIFIER SECTION

Audio Adjustment

Volume Adjustment

Turn VOLUME **A** clockwise to increase the sound level, or counterclockwise to decrease it.

Sound Quality Adjustment

To reinforce bass

Press DBFB. **B**
The lower the sound level is, the more the bass is emphasized.

To adjust sound quality to your preference

Adjust the graphic equalizer controls for the right and left speaker outputs individually.

C

- 100 Hz: Boost or cut heavy bass.
- 400 Hz: Adjust the power, spaciousness and warmth of the sound.
- 1 kHz: Increase the presence of vocals.
- 4 kHz: Enhance the brightness of sound, or reduce stridency.
- 12 kHz: Highlight the fine details of instrumental sound.

To activate surround effect for stereo sound

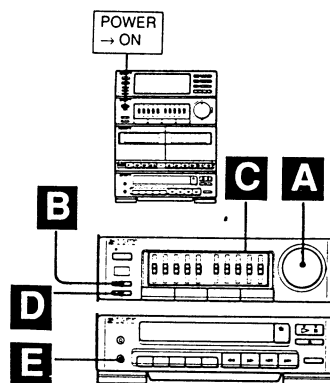
Press S-SUR (simulated surround) **D** during a stereo sound reproduction. This creates the atmosphere of a movie theater or concert hall.

This function is not effective for a monaural sound.

For personal listening

Connect headphones to HEADPHONES **E**

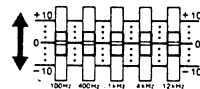
No sound comes from the speakers.



B



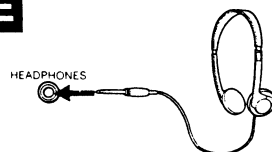
C



D



E



2-4. CD SECTION

Disc Playing

Playing the Entire Disc

- 1 Press CD.
- 2 Press \blacktriangle OPEN/CLOSE to open the tray.
- 3 Place the disc with the printed side up.
- 4 Press \blacktriangleright II. The tray closes and play starts. The display shows **A** the track number, **B** elapsed playing time of the track and **C** track numbers.

Caution on adjusting volume

Do not turn up the volume while listening to the portion with very low level inputs or no audio signals. If you do, the speakers may be damaged when a peak level portion is played.

To stop play

Press \blacksquare .

To stop for a moment during play

Press \blacktriangleright II.

To resume play, press it again.

To stop play and open the tray

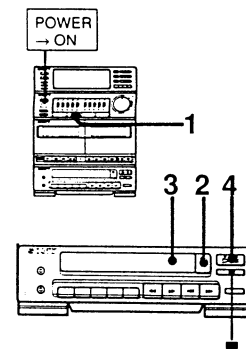
Press \blacktriangle OPEN/CLOSE.

To play a 8 cm (3-inch) CD

Place it on the inner circle of the tray. If the disc is provided with an adaptor, first remove it. Do not put a normal CD (12 cm/ 5-inch) on top of an 8 cm (3-inch) CD.

When the TUNER function is selected

The CD player section does not operate. This prevents interference to radio reception.



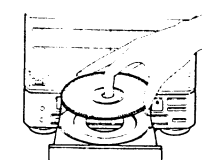
1



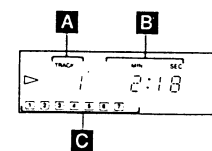
2



3



4



Locating a Particular Selection — Automatic Music Sensor (AMS)

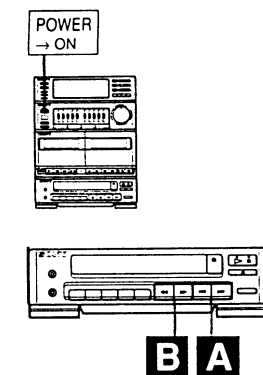
The AMS locates the beginning of a selection.
This function works during play or pause.

To locate the beginning of the current or preceding selection **A-1**

Press **⏮** as many times as required.
Keep **⏮** pressed to skip selection.

To locate the beginning of a succeeding selection **A-2**

Press **⏭** as many times as required.
Keep **⏭** pressed to skip selection.



A-1

A-2

B-1

B-2

Locating a Particular Point in a Selection

You can locate any particular point in the disc during play.

To search while monitoring the sound

To move forward at high speed **B-1**

Keep **⏭** pressed during play and release at the desired point.

To move backward at high speed **B-2**

Keep **⏮** pressed during play and release at the desired point.

To search quickly

- 1 Press **⏸** to set the unit in pause mode.
- 2 Keep **⏮** or **⏭** pressed.
The search speed increases, but there is no sound. Find the desired point by observing the display.
Press **⏸** again at the desired point.



Information display

To change the time display, press **TIME** during play.

As you press **TIME**, the display changes to give you the following information.

- A** Elapsed playing time
- B** Remaining time in a selection. If the current selection number is over 20, "----" is displayed.
- C** Remaining time of the disc

When **TIME** is pressed with a disc in the tray **D**

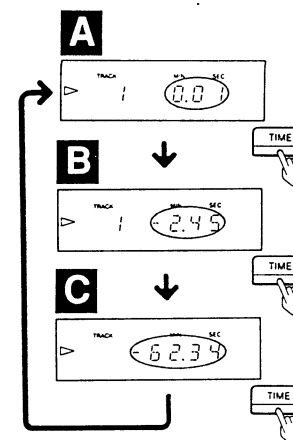
The followings appear for approx. 5 seconds.

- a** Last track number
- b** Total play time of the disc
- c** Track numbers

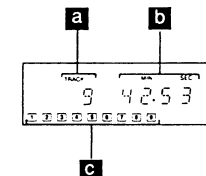
For the discs containing 17 selections or more, up to 17 appear and the rest does not appear.

Notes on handling discs **E**

- To keep the disc clean, handle the disc by its edge. Do not touch the surface. **a**
- Do not stick paper or tape on the disc. **b**
- Do not expose the disc to direct sunlight or heat sources such as hot air duct, nor leave it in a car parked in direct sunlight as there can be a considerable rise in the temperature.
- After playing, store the disc in its case.



D



E



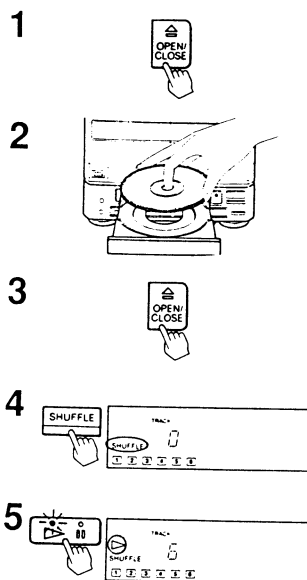
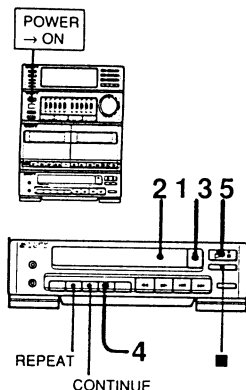
Playing in a Random Order — Shuffle Play

Shuffle play function plays all the selections in a random order.

- 1 Press **▲ OPEN/CLOSE** to open the tray.
- 2 Place the disc.
- 3 Press **▲ OPEN/CLOSE** to close the tray.
- 4 Press **SHUFFLE**.
SHUFFLE appears.
- 5 Press **▶◀**.

To stop playing
Press **■**.

To cancel shuffle play
Press **CONTINUE**.
SHUFFLE disappears, and play continues in the normal play mode.



Playing Repeatedly — Repeat Play

To repeat all selections **A**

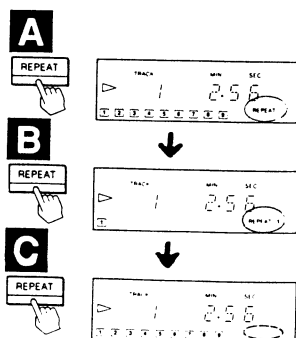
Press **REPEAT** once during play so that **REPEAT** appears.

To repeat single section **B**

Press **REPEAT** twice while playing the desired section so that **REPEAT 1** appears.

To cancel repeat play **C**

Press **REPEAT** so that neither **REPEAT** nor **REPEAT 1** is on.



Playing in a Desired Order — Program Play

You can make a program for up to 24 selections in the order you want them to be played.

- 1 Insert the disc.
- 2 Press **PROGRAM**.
PGM appears in the display.
- 3 Press **◀◀** or **▶▶** to display the desired selection.
- 4 Press **PROGRAM**.
- 5 Repeat steps 3 and 4 for the desired selections.
A Last programmed selection
B Total playing time of selections
C Programmed selection numbers
- 6 Press **▶◀**.

To stop playing

Press **■**.

To restart the same program play,
press **▶◀**.

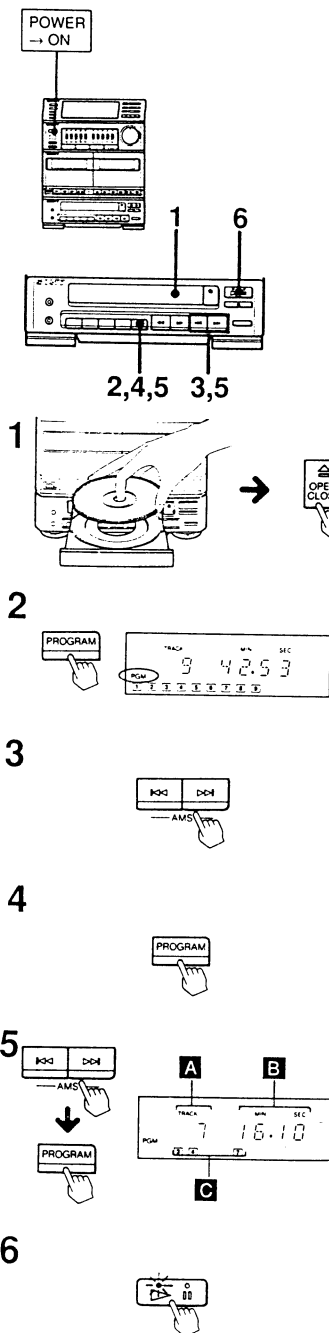
To resume normal play

Press **CONTINUE**.

The program is erased and the play continues in the normal play mode.

If "----" is displayed instead of the actual time

- You have programmed a selection number over 20.
- The total time has exceeded 100 minutes.



To check your program

- 1 Press \triangleright to enter the pause mode.
- 2 Press \triangleright .
As you press \triangleright , the track numbers appear in the order in which they are programmed.
When you finished checking, press \blacksquare once. (Be sure that you press \blacksquare only once. If you press it twice, the program will be erased.)

To add a selection to the end of the program

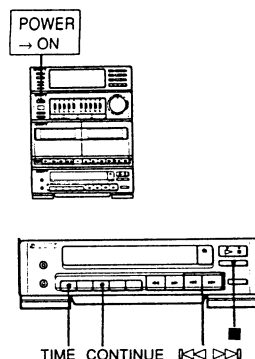
Follow the same procedures as "Playing in a Desired Order" while the unit is in the stop mode.
You cannot add selections during play.

To erase the entire program

Press \blacksquare once during stop; twice during play.
The program is also erased when you press \blacktriangle to open the tray or turn off the system.

To check the remaining time

Press TIME once to see the remaining time of the selection being played; twice to see the total remaining time of the programmed selections; once more to return to the initial display.



2-5. DECK SECTION

Tape Playback

Playback Operation

- 1 Press TAPE.
TAPE appears in the display.
- 2 Insert the tape.
- 3 Depress \triangleright .

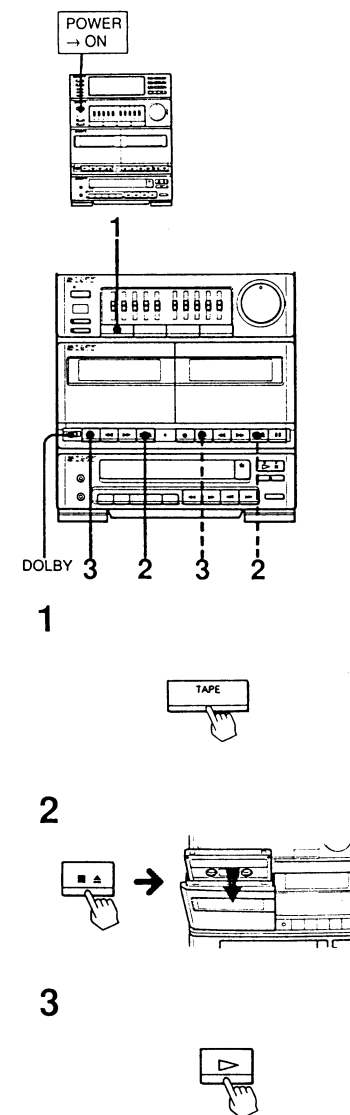
To stop playback
Press \blacksquare .

When listening to the cassette recorded with Dolby noise reduction system*
Set DOLBY NR to ON.

What is the Dolby NR system?

Dolby NR (noise reduction) system reduces tape hiss noise in low-level high-frequency signals. The system boosts these signals in recording and lowers them in playback.

* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation.
"DOLBY" and double-D symbol $\square\square$ are trademarks of Dolby Laboratories Licensing Corporation.

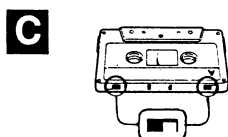
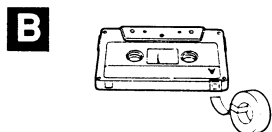
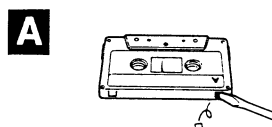
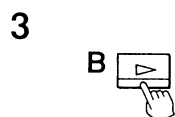
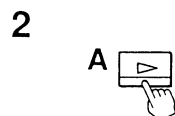
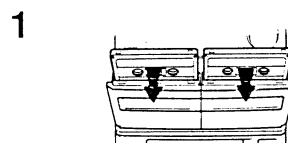
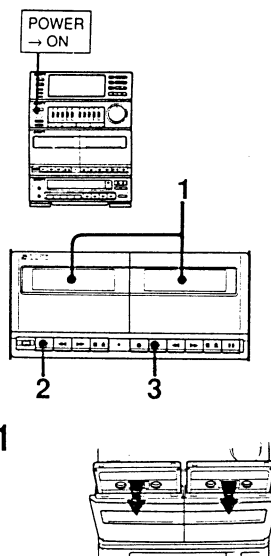


Playing from the Deck A to B in Succession – Relay Play

When the front side of the tape in deck A has been played back, the front side of the tape in deck B start playback automatically.

- 1 Insert recorded cassettes in both decks.
- 2 Depress ▷ on deck A.
- 3 Depress ▷ on deck B.

To stop relay play
Press ■ ▲ of the deck playing.



Notes on Cassettes

To protect recording A

Break out the tab on the left shoulder of the cassette side of which recording is to be protected.

To re-record the cassette B

Cover each slot with plastic tape.

When using a TYPE II (CrO₂) cassette, be careful not to cover the detector slots which are necessary for automatic tape type detection. C

Recording (Deck B)

Recording Operation

Use only TYPE I (normal) or TYPE II (CrO₂) tapes for recording.

- 1 Insert the tape.
- 2 Select program source with the function selectors and play it.
The display shows the selected program source.
- 3 Set DOLBY NR.
To use the Dolby NR system, set DOLBY NR to ON.
Otherwise, set it to OFF.
- 4 Depress ●.
▷ is depressed at the same time.
Recording starts.

To stop recording
Press ■ ▲.

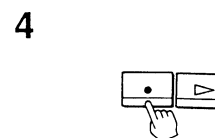
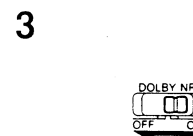
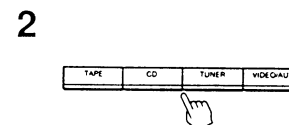
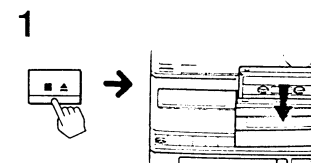
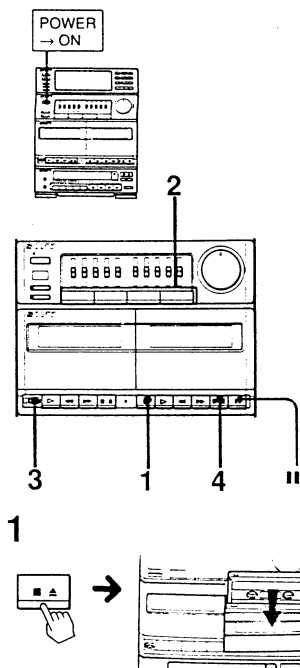
Notes

- Graphic equalizer controls are not effective for recording.
- The recording level is fixed and cannot be adjusted manually.

How to start recording precisely

- 1 Depress II after step 3 in "Recording Operation" above.
- 2 Depress ●.
▷ is depressed at the same time.
- 3 Press II again at the desired point.

If whistling noise is heard during recording MW and LW recording (HCD-H55/H1100)
Slide the ISS (Interference Suppress Switch) at the rear to the position depending on which best reduces the noise.



Editing the CD for Recording

The CD player automatically edits the selections on a CD according to the tape length.

1 Insert the tape in deck B and the disc in the CD player.

2 Set DOLBY NR.

To use the Dolby NR system, set DOLBY NR to ON. Otherwise, set it to OFF.

3 Press CD of the function selector.

4 Press EDIT.

Make sure that EDIT and ---- appear in the display.

5 Designate the tape length of one side using ►► and ◄◄, or ►◄ and ◄◄.

As you press ►► or ◄◄, the minute display changes as follows:
23 ↔ 27 ↔ 30 ↔ 37 ↔ 45 ↔ --

As you press ►◄ or ◄◄, the seconds increase or decrease by 10. After 50, the seconds show 00 and the minutes increase by 1.

6 Press EDIT.

The selections to be recorded are determined automatically. For details, see page 50.

Then the display shows **A** the last selection to be recorded, **B** total playing time, and **C** selections to be recorded.

7 Depress ●.

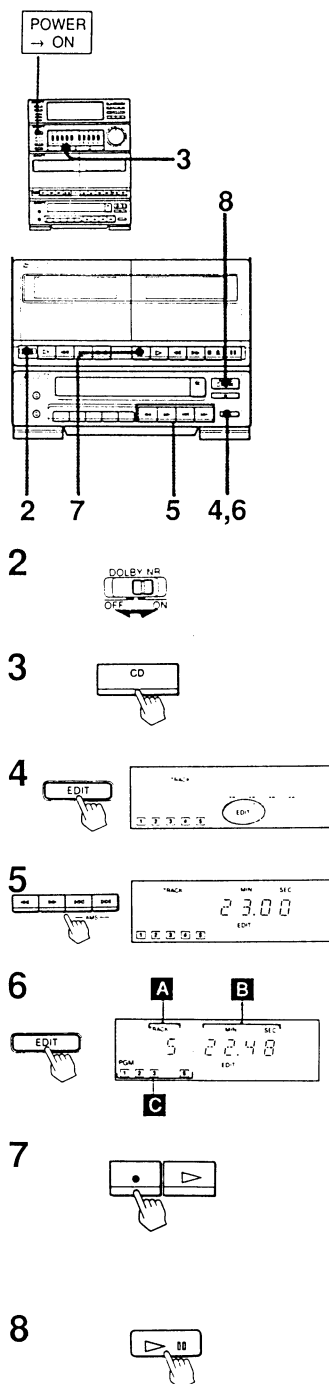
► is depressed at the same time.

8 Press ► on the CD player.

The recording starts.

NOTE

- Up to 20th selection in the disc can be recorded. 21st selection cannot be recorded.
- In step 5, designate the total playing time shorter than the tape length.



To record on both sides

After step 6, press EDIT again for the reverse side, and then proceed with the remaining steps.

The CD player enters the pause mode after recording on the front side.

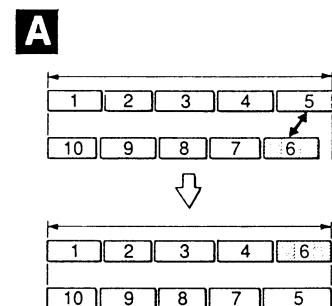
During pause, take out the cassette and reverse it. Then set the cassette deck in the recording mode and restart the CD playback.

To record desired selections on the front side

Before pressing EDIT, program the desired selection. (See page 38.)

How the CD player determines the selections **A**

The CD player selects the selections from the first one in the CD, summing up each playing time. When the total playing time exceeds the specified tape length, the last selection is eliminated. Then, the CD player looks for a selection whose length is within the remaining tape and substitutes it for the eliminated one.



Tape Dubbing (from deck A to B)

Editing the Tape

- 1 Press **TAPE** of the function selector.
- 2 Insert the recorded tape in deck A and the blank tape in deck B.
- 3 Locate the beginning of the portion to be dubbed on deck A, using **◀** or **▶** and then stop the tape. When dubbing the whole side of the tape, skip this step.

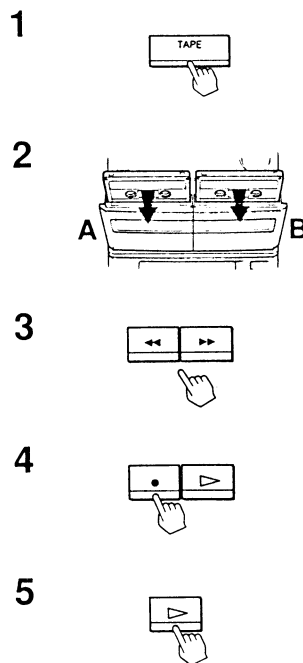
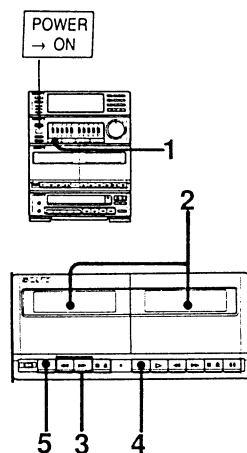
- 4 Depress **●**.
▷ is depressed at the same time.
- 5 Press **▷** of deck A.
Dubbing of the desired portion starts.

To stop dubbing
Press **■** **▲** on both decks.

Is it necessary to set DOLBY NR?
Yes. Set DOLBY NR according to the playback tape.

Is it possible to listen to program sources other than tape during dubbing?

No. The source changes to that of the function selector pressed and the tape playback cannot be dubbed.



Timer-activated Operation

The power can be turned on and off automatically so that you can wake up to music, etc.
Recording or tape playback cannot be activated by the timer.

The preset timer-on and -off time remain until you reset them or the power cord is disconnected.

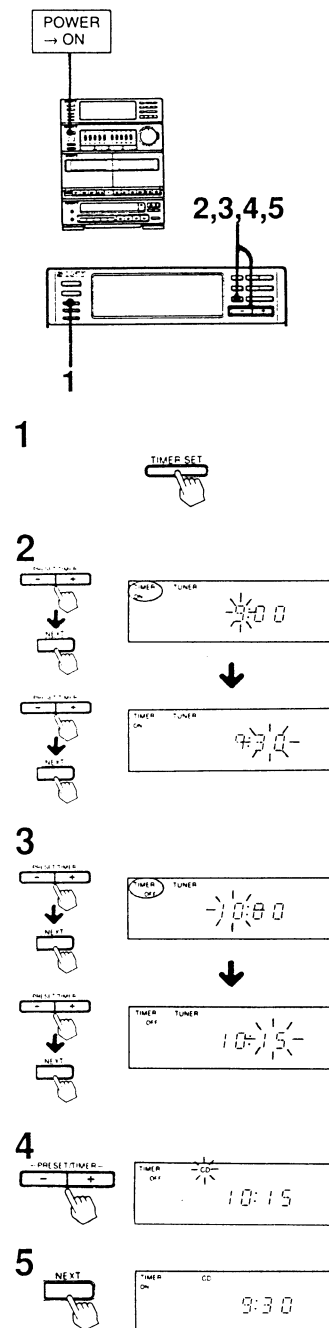
Before setting the timer

- Make sure the clock is set correctly.

Timer Setting

The illustrations show an example that the system turns on at 9:30 and off at 10:15.

- 1 Press **TIMER SET**.
TIMER ON appears and a figure indicating hour blinks.
- 2 Set the hour and minute of the timer-on time with **PRESET/TIMER +** or **-**, and **NEXT**.
TIMER OFF appears and a figure indicating hour blinks.
- 3 Set the hour and minute of the timer-off time with **PRESET/TIMER +** or **-**, and **NEXT**.
The program source blinks.
- 4 Select the program source with **PRESET/TIMER +** or **-**.
As you press **+** or **-**, the source changes:
TUNER ↔ CD
- 5 Press **NEXT**.
- 6 Prepare for the source: selecting a preset station inserting the disc.
- 7 Press **POWER** to turn off the system.
Make sure that **TIMER** is on.
At the timer-on time, the system turns on automatically.



To change the time and program

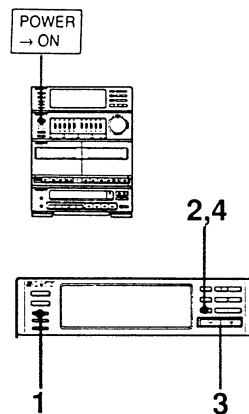
- 1 Press **TIMER SET**.
The timer-on hour blinks.
- 2 Press **NEXT** until the item to be changed blinks.
- 3 Press **PRESET/TIMER +** or **-** until the desired time or source appears.
- 4 Press **NEXT** until **TIMER ON** time appears.
The display, then shows **TIMER OFF** time, and returns to the previous display.

When you do not want to operate the timer program

Press **TIMER CONTROL** to turn off **TIMER**.
To reactivate the timer, press **TIMER CONTROL** to display **TIMER**.

When the power is already on at the preset time

The function mode will be automatically changed to the preset one, even if you are playing a program of another function.



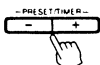
1



2



3



4



Sleep Timer Operation

By setting the sleep timer, the system power can be turned off after the preset duration.

Sleep Timer Setting

- 1 Play the desired program source.
- 2 Press **SLEEP** to select the desired duration in minute.
As you press **SLEEP**, the indication changes as follows:
90 → 80 → ... 10 → --

Note

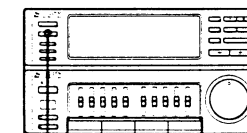
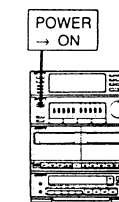
For tape playback, be sure to select the duration longer than the tape length.

To turn off the system before the time of the sleep timer comes

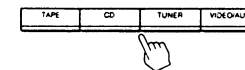
Press **POWER**.

To check the remaining time of the sleep timer

Press **SLEEP** once, and the remaining time appears.
The display returns to the previous indication in several seconds.



1



2



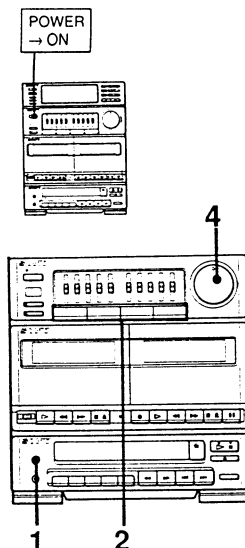
Microphone Mixing

Mixing Operation

- 1 Connect the microphone to MIX MIC jack.
- 2 Select program source with the function buttons and play it.
- 3 Sing or speak into the microphone.
- 4 Adjust the total volume.

When the mixing is over

Be sure to disconnect the microphone.

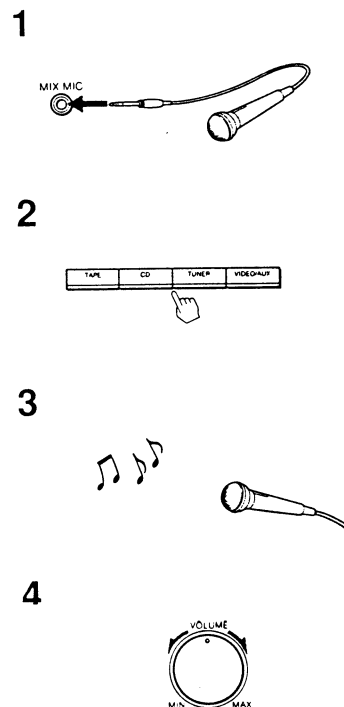


Recording the Sound Mixed with a Source

- 1 Mix the sound as described above.
- 2 Insert a tape in deck B.
- 3 Set deck B to the record mode.

Recording from a Microphone Only

- 1 Press CD.
- 2 Press ■ of the CD player.
- 3 Insert a tape in deck B.
- 4 Depress ●.
▷ is depressed at the same time.
Recording starts.
- 5 Speak or sing into the microphone.



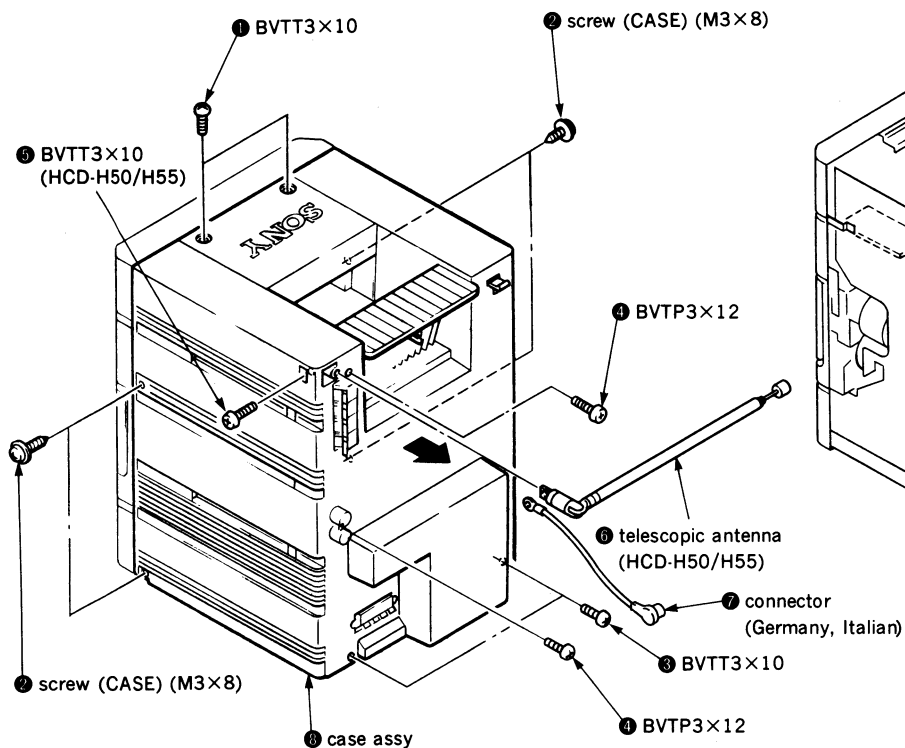
To stop howling (acoustic feedback)

Placing the microphone too close to the speakers may cause howling. Move the microphone away from the speakers or change the direction it faces.

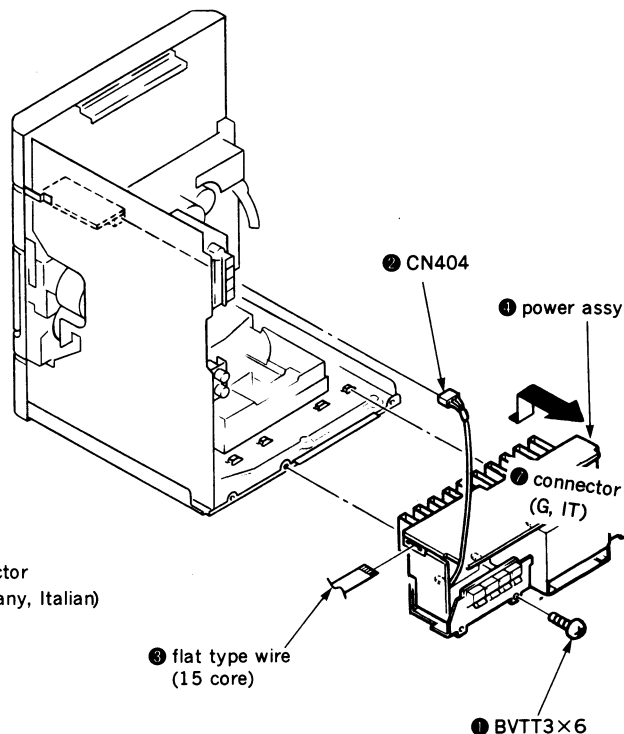
SECTION 3 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

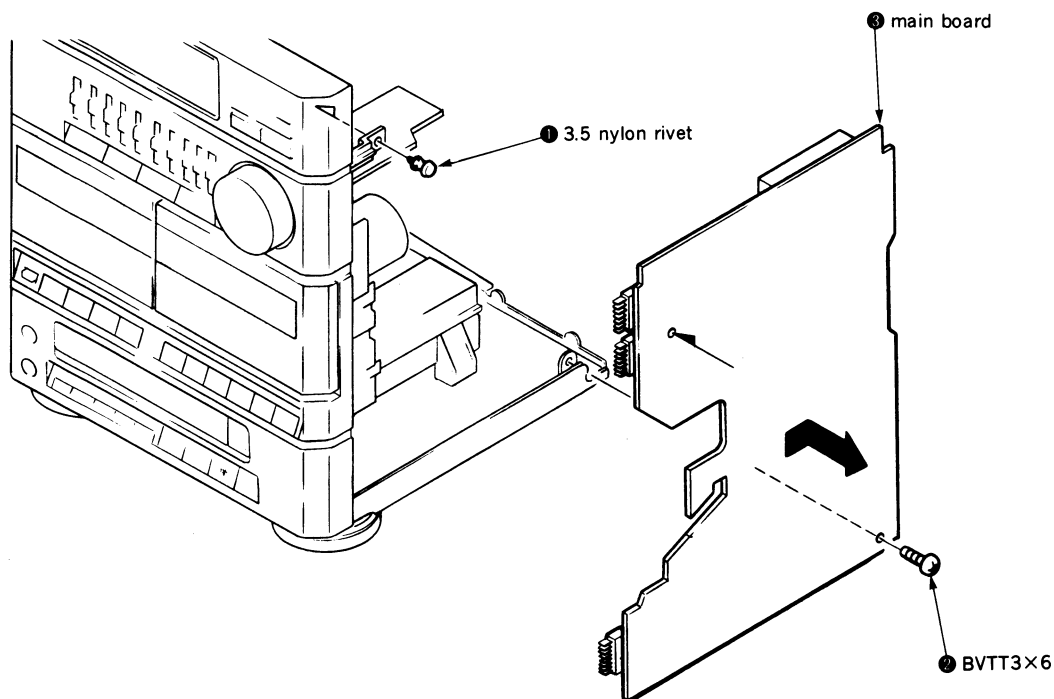
3-1. CASE ASSY



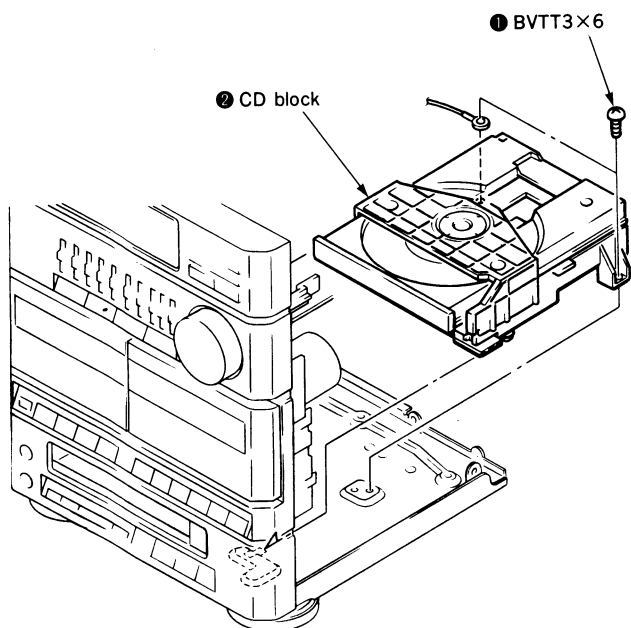
3-2. POWER ASSY



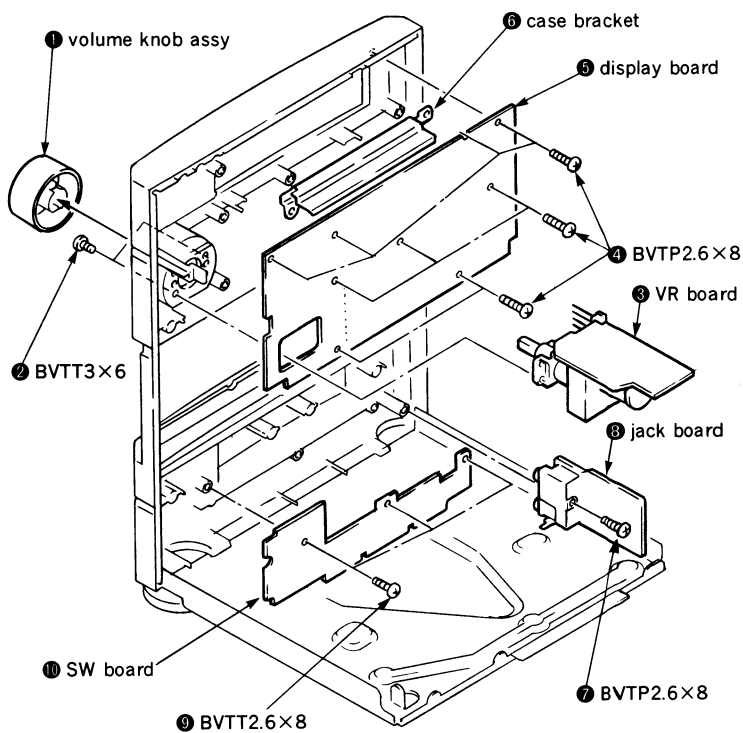
3-3. MAIN BOARD



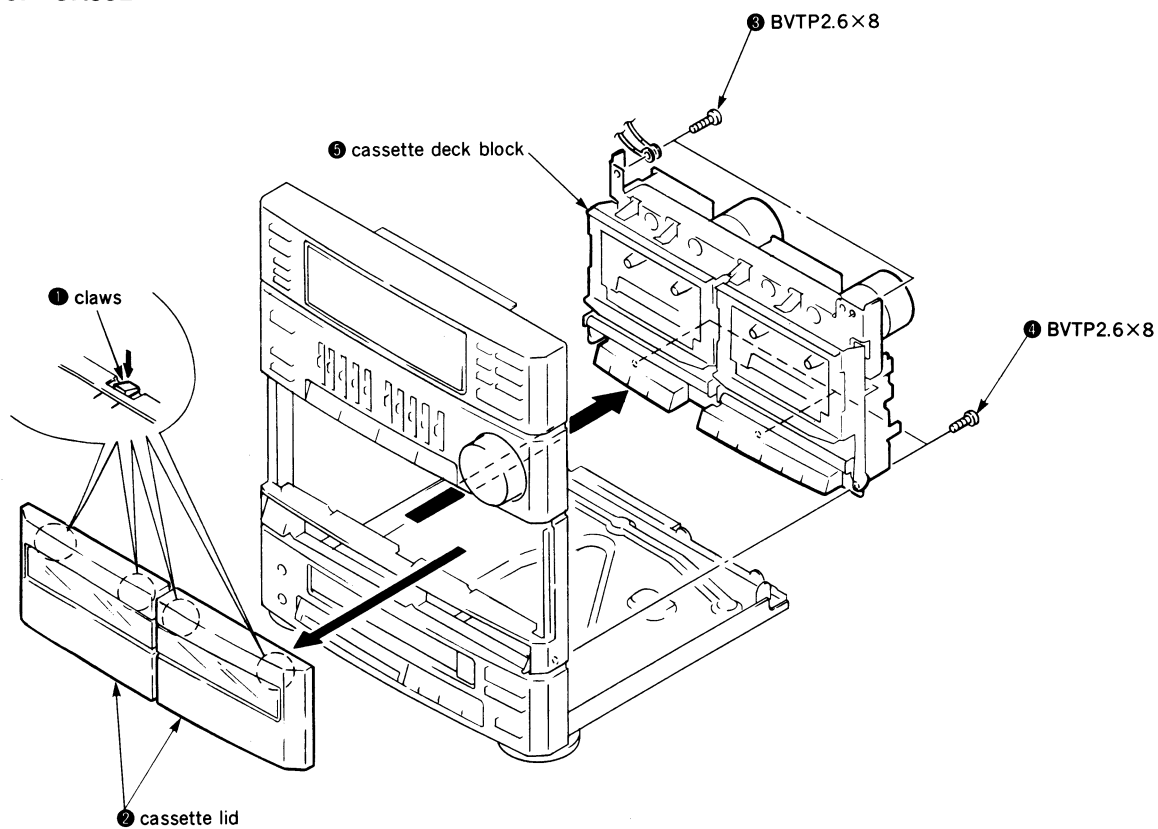
3-4. CD BLOCK



3-6. VR, DISPLAY, JACK, SW BOARDS



3-5. CASSETTE DECK BLOCK



SECTION 4 MECHANICAL ADJUSTMENTS

PRECAUTION

- Clean the following parts with a denatured alcohol-moistened swab :

record/playback head	pinch roller
erase head	rubber belt
capstan	idler
- Demagnetize the record/playback head with a head demagnetizer.
(Head demagnetizer do not approach for the erase head.)
- Do not use a magnetized screwdriver for the adjustment.
- After the adjustments, apply suitable locking compound to the parts adjusted.
- The adjustment should be performed with the rated power supply voltage unless otherwise noted.

• Torque Measurement

Torque	Torque meter	Meter reading
Forward	CQ-102C	35 to 60g•cm (0.49 to 0.83oz•inch)
Forward back tension	CQ-102C	25 to 4.5g•cm (0.035 to 0.062oz•inch)
Forward, Reverse	CQ-102B	75 to 150g•cm (1.04 to 2.08oz•inch)

• G : Germany, IT : Italian, EE : East European
EA : Saudi Arabia, AUS : Australian

SECTION 5 ELECTRICAL ADJUSTMENTS

DECK SECTION

- The adjustment should be performed in the publication.
(Be sure to make playback adjustment at first.)
- The adjustment and measurement should be performed for both L-CH and R-CH.
 - Switch position
DOLBY NR switch : OFF

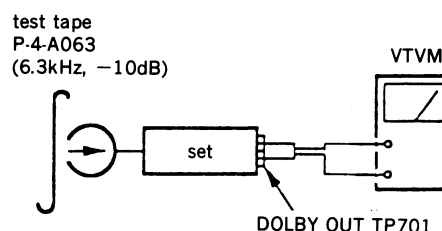
• Test Tape

Tape	Contents	Use
P-4-A063	6.3kHz, -10dB	Head Azimuth Adjustment
WS-48A	3kHz, 0dB	Tape Speed Adjustment

Record/Playback Head Azimuth Adjustment

Procedure :

- Mode: playback



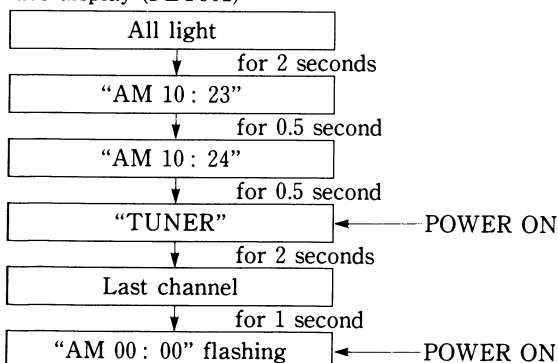
• Timer Test Mode

When BAND, SHIFT and PRESET/TIMER+ buttons are pressed at the same time the following time test operation is performed. After the operation, it becomes in the system reset mode. Take care that the frequency preset to the tuner is initialized.

- POWER OFF
- Timer set

Clock	AM10: 23
Timer ON	AM10: 24
Timer OFF	AM10: 31
Function	TUNER

- FL tube display (FLT501)



- Finish

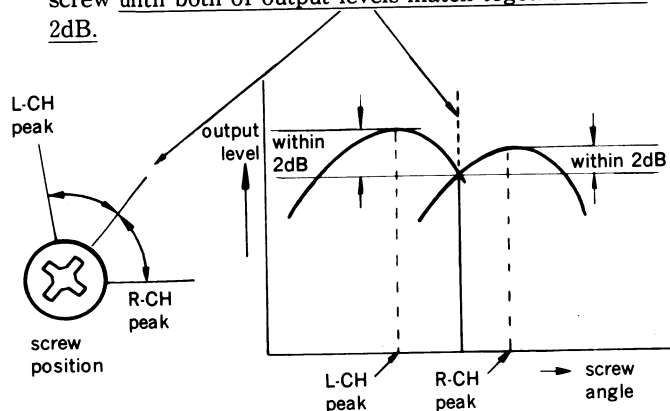
• Preset Frequency in Restting

When pressing the system reset button (S701) of the rear side of the unit, the following frequency is preset to the tuner part. When the system reset is performed in repairing, be sure to return to the frequency set by the user.

FM	US, Canadian model MW tuning interval: 10k (9k)		AEP, G, EE model () : IT model	
	AM		MW	LW
A1 87.5MHz	A6 530(531)kHz	A6 531(522)kHz	B1 153(144)kHz	
A2 88.0MHz	A7 620(621)kHz	A7 603kHz	B2 162kHz	
A3 98.0MHz	A8 1050(1053)kHz	A8 999kHz	B3 216kHz	
A4 106.0MHz	A9 1490(1485)kHz	A9 1404kHz	B4 270kHz	
A5 108.0MHz	A10 1710kHz	A10 1602(1611)kHz	B5 279(288)kHz	

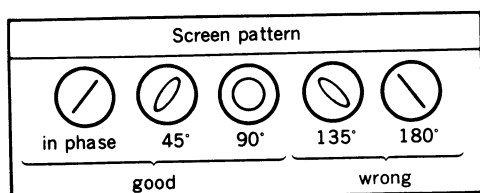
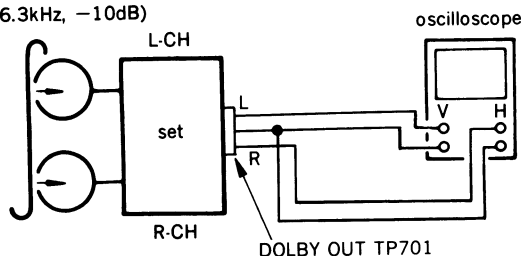
FM	E, EA, AUS model MW tuning interval: 9k (10k)	
	MW	SW
A1 87.5MHz	A6 531(530)kHz	B1 5.95MHz
A2 88.0MHz	A7 603(620)kHz	B2 7.00MHz
A3 98.0MHz	A8 999(1050)kHz	B3 12.00MHz
A4 106.0MHz	A9 1404(1490)kHz	B4 17.00MHz
A5 108.0MHz	A10 1602(1710)kHz	B5 17.90MHz

- Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 2dB.



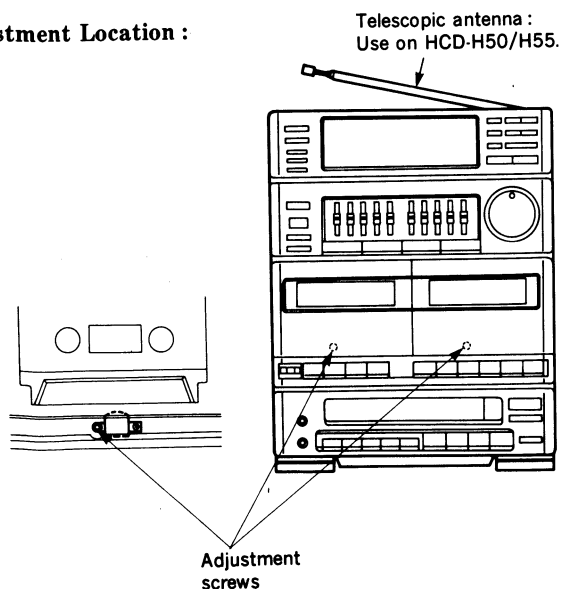
3. Playback Mode

test tape
P-4-A063
(6.3kHz, -10dB)



- Change the review playback mode and repeat the steps 1 to 3.
- After the adjustment, lock the adjustment screw with suitable locking compound.

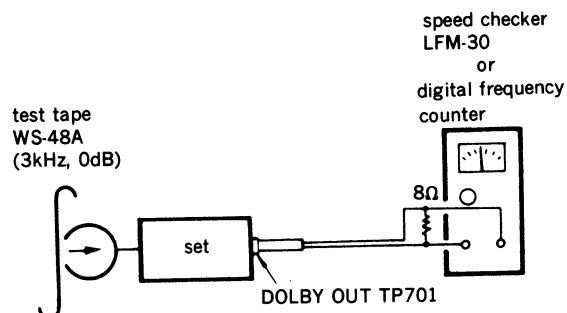
Adjustment Location :



Tape Speed Adjustment

Procedure :

Mode : playback

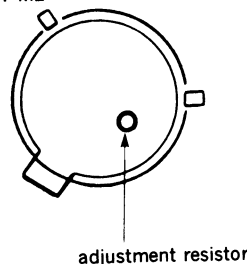


Speed checker	Digital frequency counter
$\pm 0.67\%$	2,980 to 3,020Hz

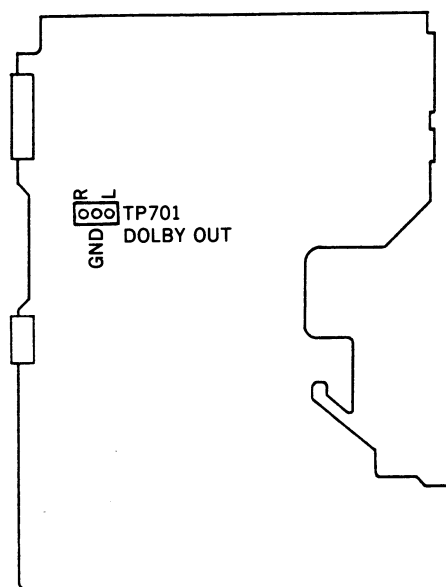
Frequency difference between the beginning and the end of the tape should be within 1% (30Hz).

Adjustment Location :

motor
deck A : M1
deck B : M2



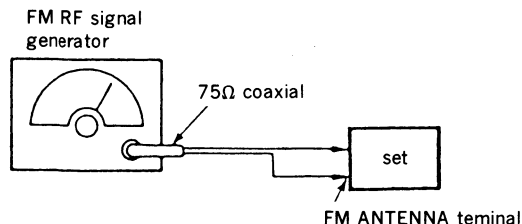
main board —component side—



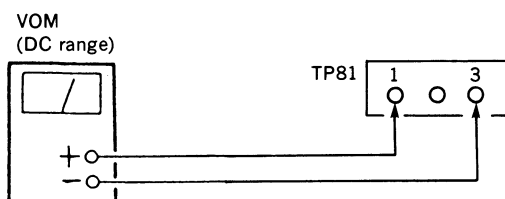
TUNER SECTION

FM SECTION ADJUSTMENTS

Setting :



Carrier frequency : 98MHz
Modulation : 1kHz, 75kHz deviation (US, Canadian, E, EA, AUS)
1kHz, 40kHz deviation (AEP, WG, IT, EE)



FM Discriminator Alignment (NULL Check)

Band : FM

Procedure :

1. Supply a 1mV (60dB μ) 98MHz signal from the ANTENNA terminal.
2. Tune the set to 98MHz.
3. Adjust IFT82 for 0V reading on the VOM.

Note : FM tuned indication lighting level adjustment should be made after FM discriminator alignment.

FM Tuned Indication Lighting Level Adjustment

Band : FM

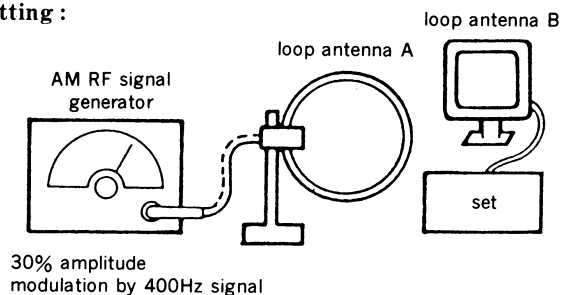
Procedure :

1. Supply a 32 μ V (30dB μ) 98 MHz signal from the ANTENNA terminal.
2. Tune the set to 98MHz.
3. Adjust RV81 so that the **TUNED** light up.

Adjustment Location : main board

AM SECTION ADJUSTMENTS

Setting :



MW (AM) Tuned Indication Lighting Level Adjustment

Band : MW or AM

Procedure :

1. Set loop antenna A so that the loop antenna B input level becomes 0.45mV (53dB μ).
2. Tune the set to 1,490kHz (US, Canadian) or 1,404kHz (AEP, G, IT, EE, E, EA, AUS).
3. Adjust the RV82 so that the **TUNED** light up.

SW OSC Voltage Adjustment (E, EA, AUS model)

Band : SW

Procedure :

1. Connect the VOM to TP (OSC).
2. Tune the set to 5.95MHz.
3. Adjust T2 for 0.9 to 1.1V reading on the VOM.
4. Tune the set to 17.90MHz.
5. Adjust CT22 for 8.3 to 8.7V reading on the VOM.

SW Tracking Adjustment (E, EA, AUS model)

Band : SW

Procedure :

1. Connect the VOM to speaker terminal.
2. Adjust for a maximum reading on VTVM.

Signal generator and set frequency	Adjustment part
7.0MHz	T1
17.0MHz	CT21

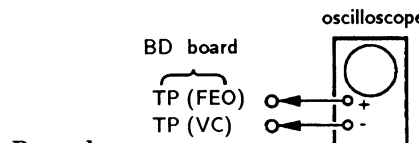
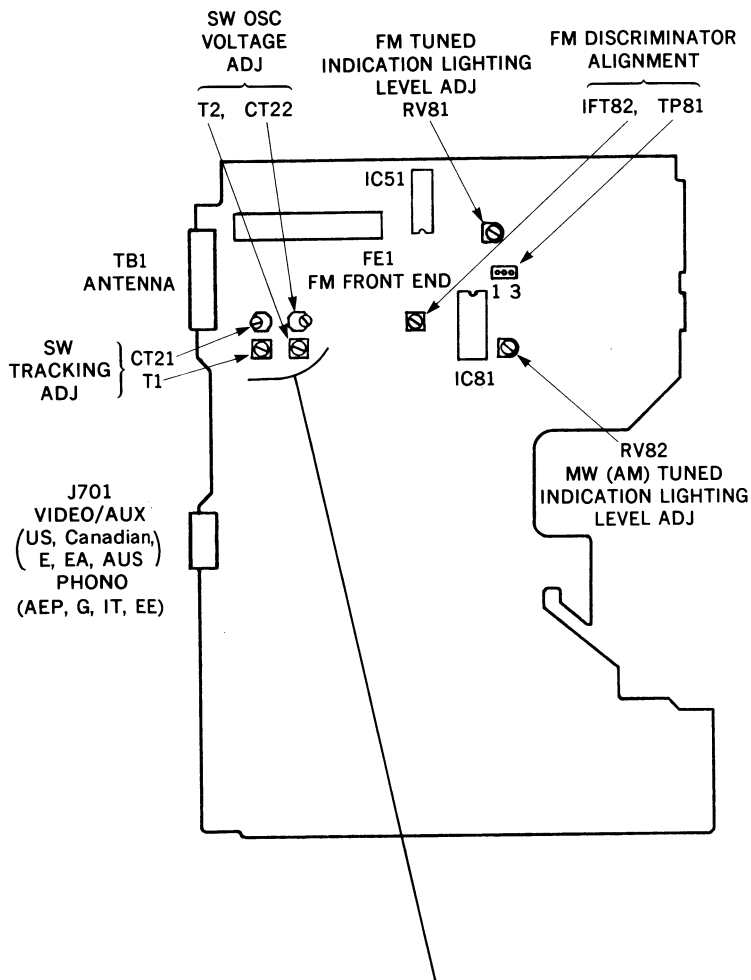
Adjustment Location : main board —component side—

CD SECTION

Note :

1. CD Block basically constructed to operate without adjustment. Therefore, check each item in order given.
2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
3. Use the oscilloscope with more than $10M\Omega$ impedance.
4. Clean an object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

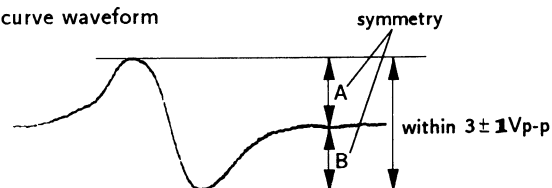
S Curve Check



Procedure :

1. Connect oscilloscope to test point TP (FEO) on BD board.
2. Connect between test point TP (FES) and TP (VC) by lead wire.
3. Turned Power switch on and actuate the focus serch. (actuate the focus serch when disc table is moving in and out.)
4. Check the oscilloscope waveform (S curve) is symmetrical between A and B. And confirm peak to peak level within $3 \pm 1V_{p-p}$.

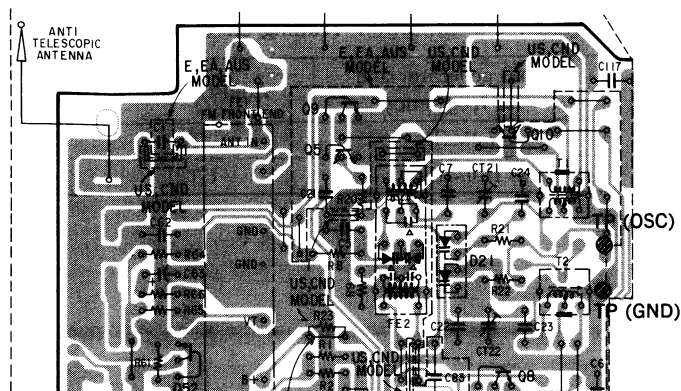
S curve waveform



5. After check, remove the lead wire connected in step 2.

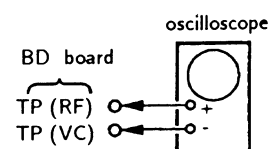
Note : • Try to mesure several times to make sure that the ratio of A : B or B : A is more than 10 : 7.

• Take sweep time as long as possible and light up the brightness to obtain best waveform.



SECTION 6 DIAGRAMS

RF Level Check

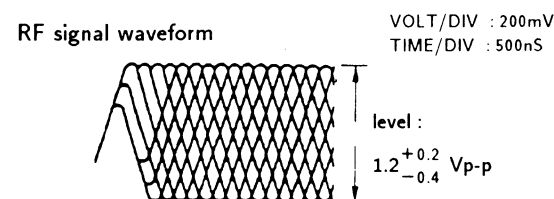


Procedure :

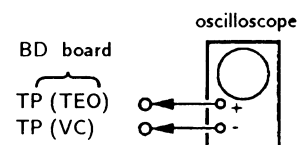
1. Connect oscilloscope to test point TP (RF) on BD board.
2. Turn Power switch on.
3. Put disc (YEDS-18) in and playback.
4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.

Note :

Clear RF signal waveform means that the shape "◇" can be clearly distinguished at the center of the waveform.

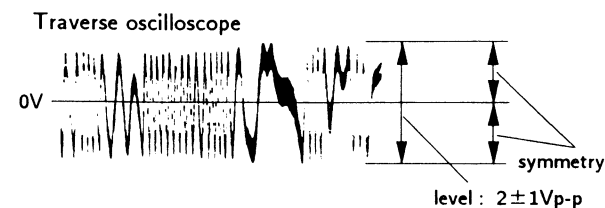


E-F Balance Check



Procedure :

1. Connect test point TP (ADJ) to ground and TP (TES) to TP (VC) with lead wire.
2. Connect oscilloscope to test point TP (TEO) on BD board.
3. Turn Power switch on.
4. Put disc (YEDS-18) in and playback.
5. Confirm that the oscilloscope waveform is symmetrical on the top and bottom in relation to 0V, and check this level.

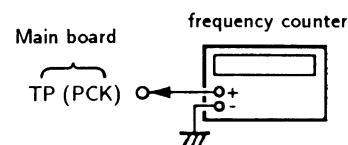


6. Remove the lead wire connected in step 1.

RF PLL Free-run Frequency Check

Procedure :

1. Connect frequency counter to test point (PCK) with lead wire.
2. Turn Power switch on.
3. Confirm that reading on frequency counter is 4.3218MHz.

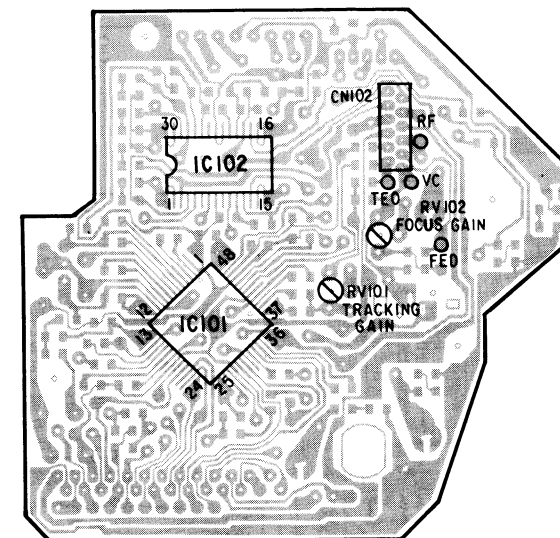


Focus/Tracking Gain

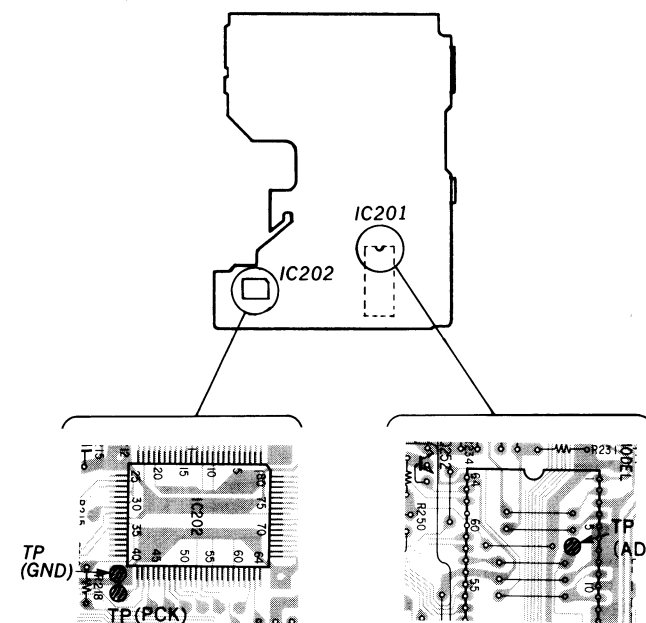
This gain has a margin, so even if it is slightly off. There is no problem. Therefore, do not perform, this adjustment. Please note that it should be fixed to mechanical center position when you moved and do not know original position.

Adjustment Locations :

BD board — conductor side —

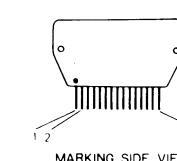


main board — component side —



6-1. SEMICONDUCTOR LEAD LAYOUTS

STK-4122MK2



DTA114ES
DTA144ES
DTC114ES
DTC144ES
2SC2603-EF
2SC2724-CD
2SC3622A-LK



DTC114TS
2SA1175-HFE



2SB1370-EF
2SD1761-EF



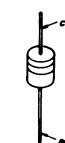
2SC3112-B
2SD1387
2SD1616A-K



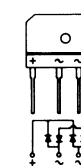
2SK246-GR3
2SK246-Y



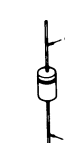
HZS6C2L
HZS7B3L
HZS7C2L
HZS9A2L
UZ-4.7BSC
UZL-24L
1SS120
11ES2



RBA-402



UZZP-5.1BC



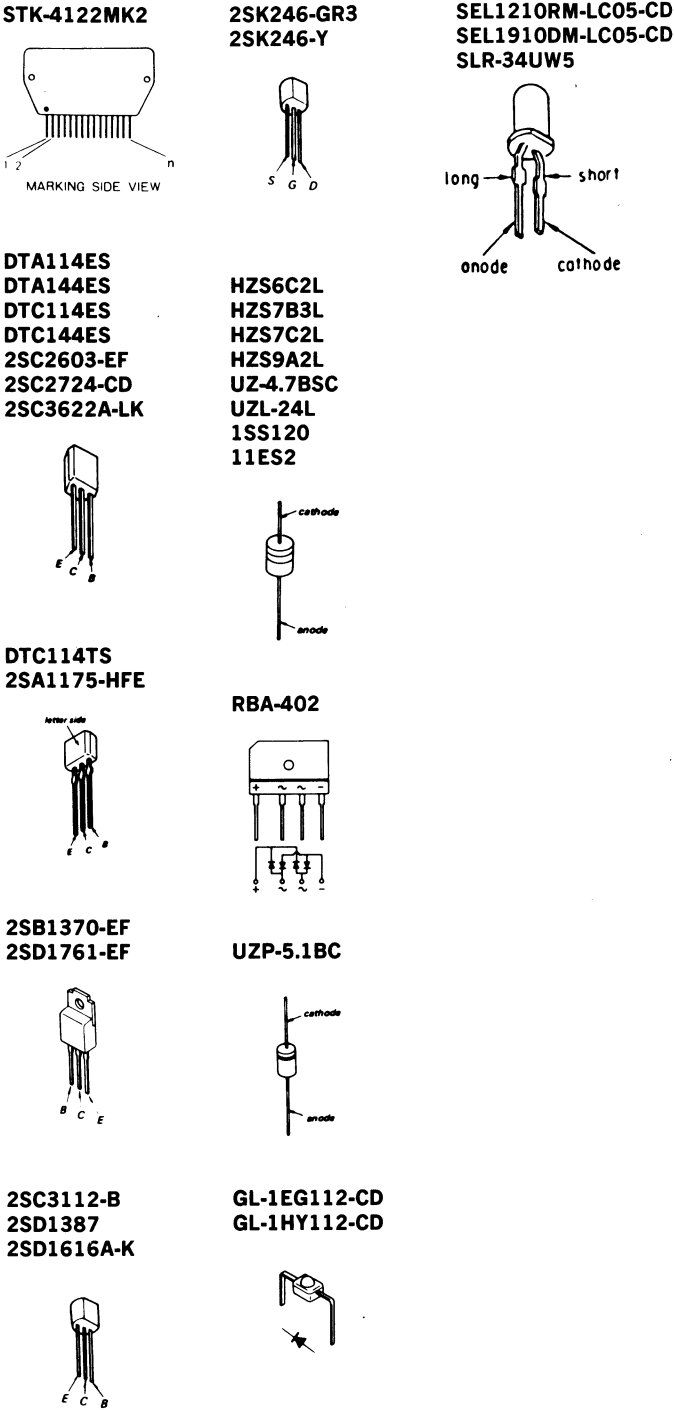
GL-1EG112-CD
GL-1HY112-CD



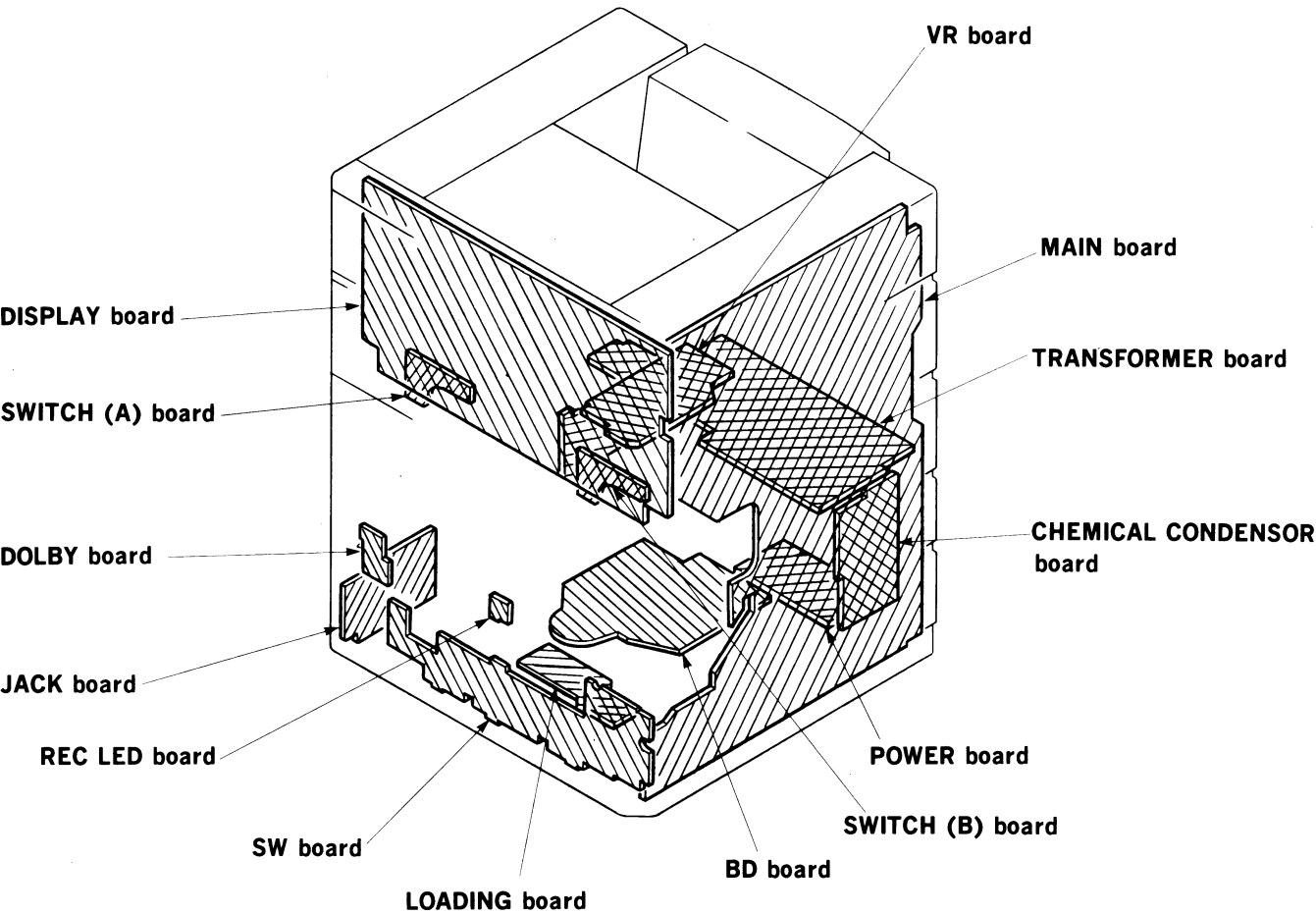
6-2.

SECTION 6 DIAGRAMS

6-1. SEMICONDUCTOR LEAD LAYOUTS



6-2. CIRCUIT BOARDS LOCATION



• Semiconductor Location

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D21(*1)	C-6	Q1(*3)	D-9	Q790	D-13
D201	F-16	Q2(*4)	E-9	Q791	D-14
D205	D-15	Q3(*2)	E-6	Q999	H-15
D206	H-19	Q3(*3)	E-10		
D207	H-20	Q4(*2)	E-6		
D208	I-21	Q4(*3)	E-10		
D209	I-21	Q5(*1)	B-5		
D210	J-21	Q5(*3)	B-9		
D211	J-23	Q6(*1)	E-6		
D300	I-6	Q6(*3)	E-10		
D601	C-16	Q7(*1)	D-6		
D701	D-13	Q7(*3)	D-10		
D721	C-18	Q8(*1)	D-6		
D735	H-11	Q8(*3)	D-10		
D736	G-15	Q9(*1)	B-5		
D737	G-15	Q9(*3)	B-9		
D738	G-15	Q10(*1)	B-6		
D739	G-15	Q51(*2)	D-4		
D785	E-13	Q51(*3)	D-8		
D786	E-13	Q52(*2)	D-4		
D787	E-13	Q52(*3)	D-8		
D788	D-14	Q53(*3)	D-7		
D789	D-13	Q54(*3)	D-7		
D790	C-14	Q101	I-8		
D791	D-13	Q101(BD)	F-21		
D792	D-13	Q102	H-8		
D793	F-13	Q103	G-10		
		Q201	E-15		
IC51(*2)	E-4	Q231	F-17		
IC51(*3)	E-8	Q232	E-17		
IC81	F-10	Q233	F-16		
IC101(BD)	E-21	Q234	F-17		
IC102(BD)	D-21	Q252	E-15		
IC201	D-17	Q253	E-16		
IC202	I-17	Q601	F-13		
IC221	G-17	Q603	C-16		
IC222	F-18	Q651	F-13		
IC223	F-17	Q721	B-17		
IC253	F-15	Q722	B-16		
IC601	C-15	Q723	B-18		
IC602	E-13	Q731	F-12		
IC621(*3)	C-12	Q732	E-12		
IC661	C-17	Q735	H-11		
IC701	E-12	Q736	H-11		
IC702	D-12	Q738	H-10		
IC703	E-12	Q739	G-15		
IC704	C-13	Q740	G-15		
IC705	F-12	Q781	F-12		
IC706	I-10	Q785	D-14		
IC785	D-13	Q786	E-14		
IC999	H-6	Q787	E-14		
Q1(*2)	D-5	Q789	D-13		

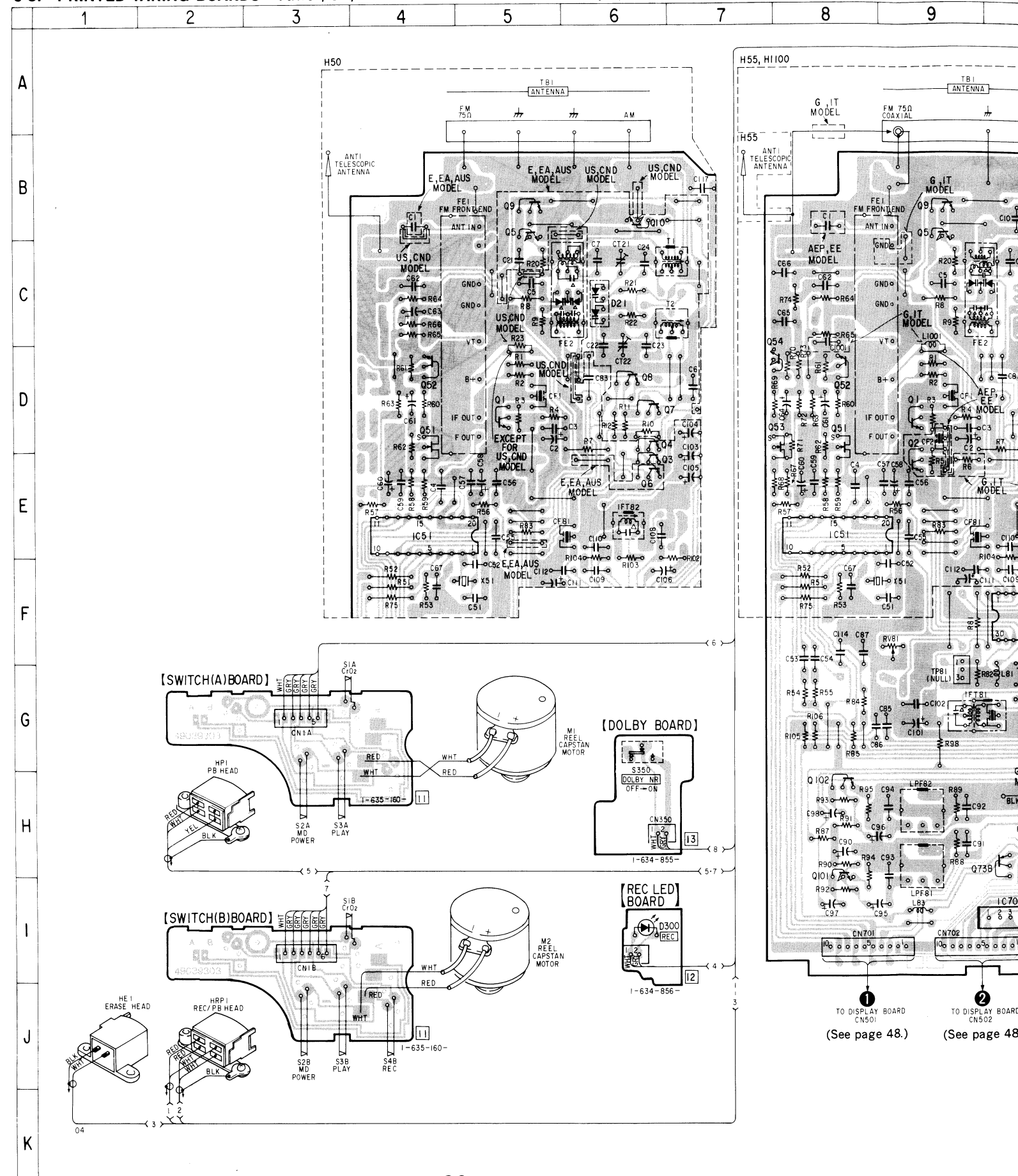
Note:

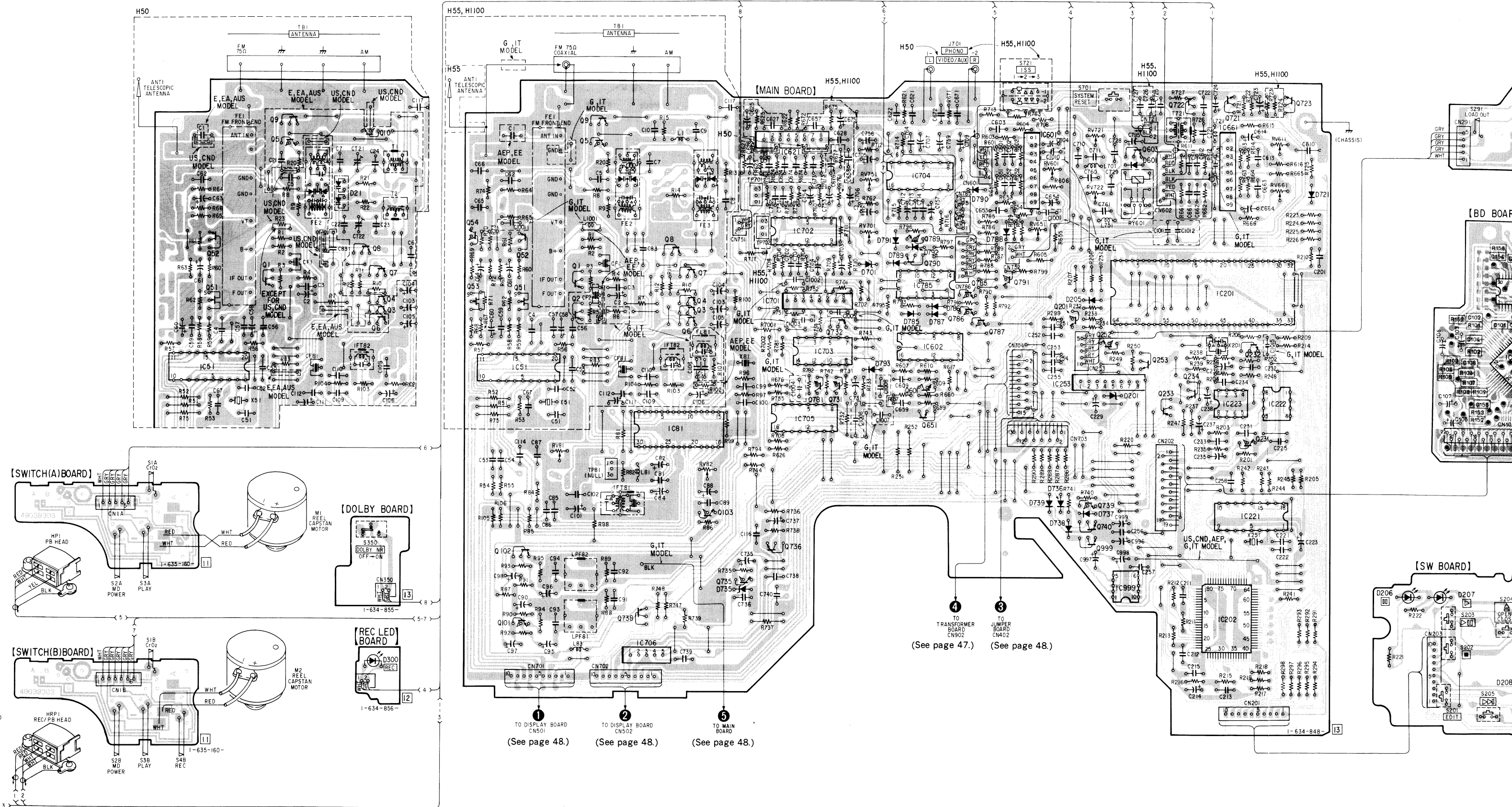
- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : indicates side identified with part number.
- : Through hole.
- ▨ : Pattern on the side which is seen.
- ▩ : Pattern of the rear side.
- CND: Canadian model
- G: Germany model
- IT: Italian model
- EE: East European model
- EA: Saudi Arabia model
- AUS: Australian model

- *1 : Used on E, EA and AUS model.
- *2 : Used on HCD-H50.
- *3 : Used on HCD-H55/H1100.
- BD : Used on BD board.
- *4 : Used on G and IT model.

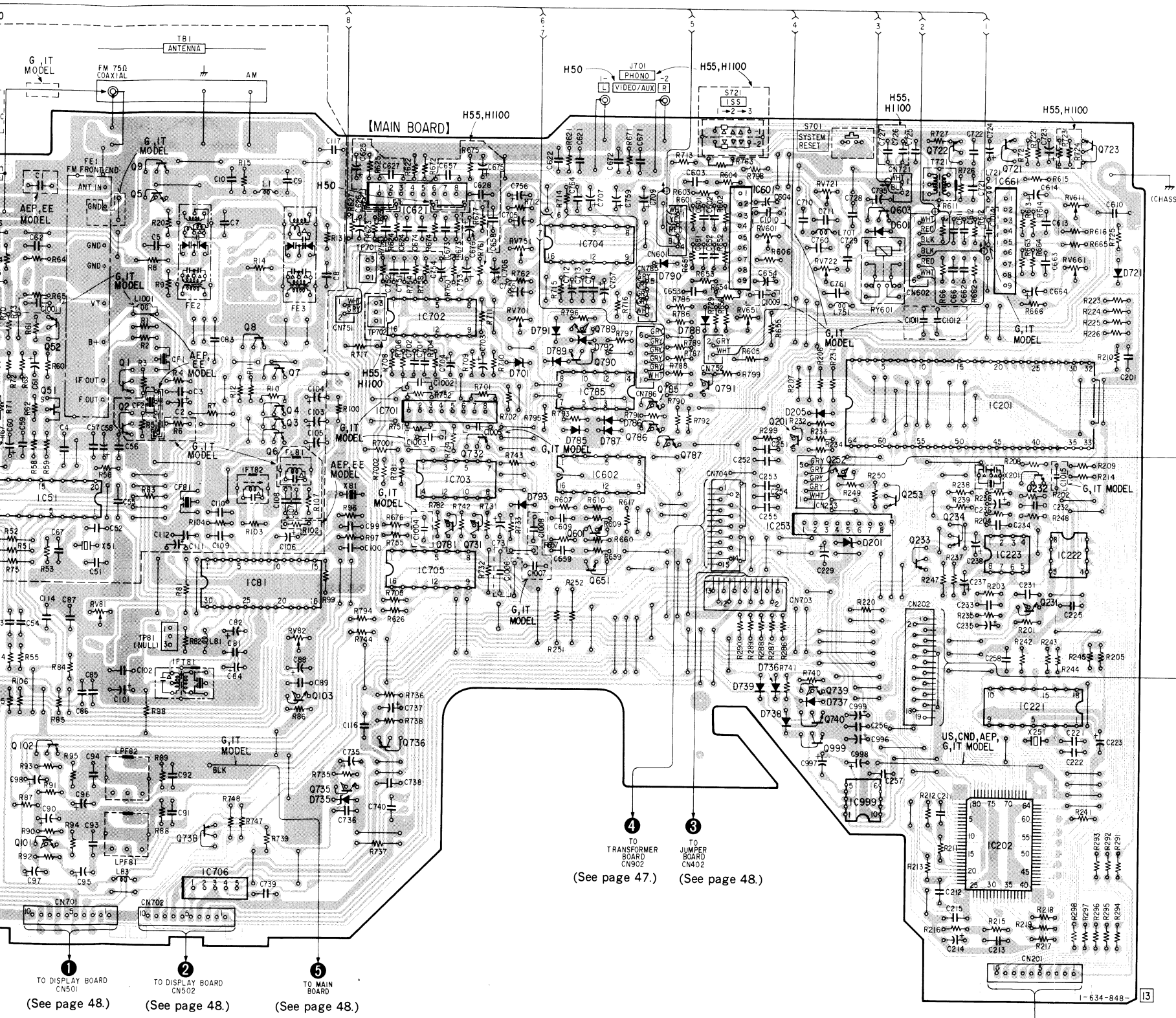
6-3. PRINTED WIRING BOARDS—Tuner/CD/Deck Section—

• Refer to page 26 for Semiconductor Lead Layouts.



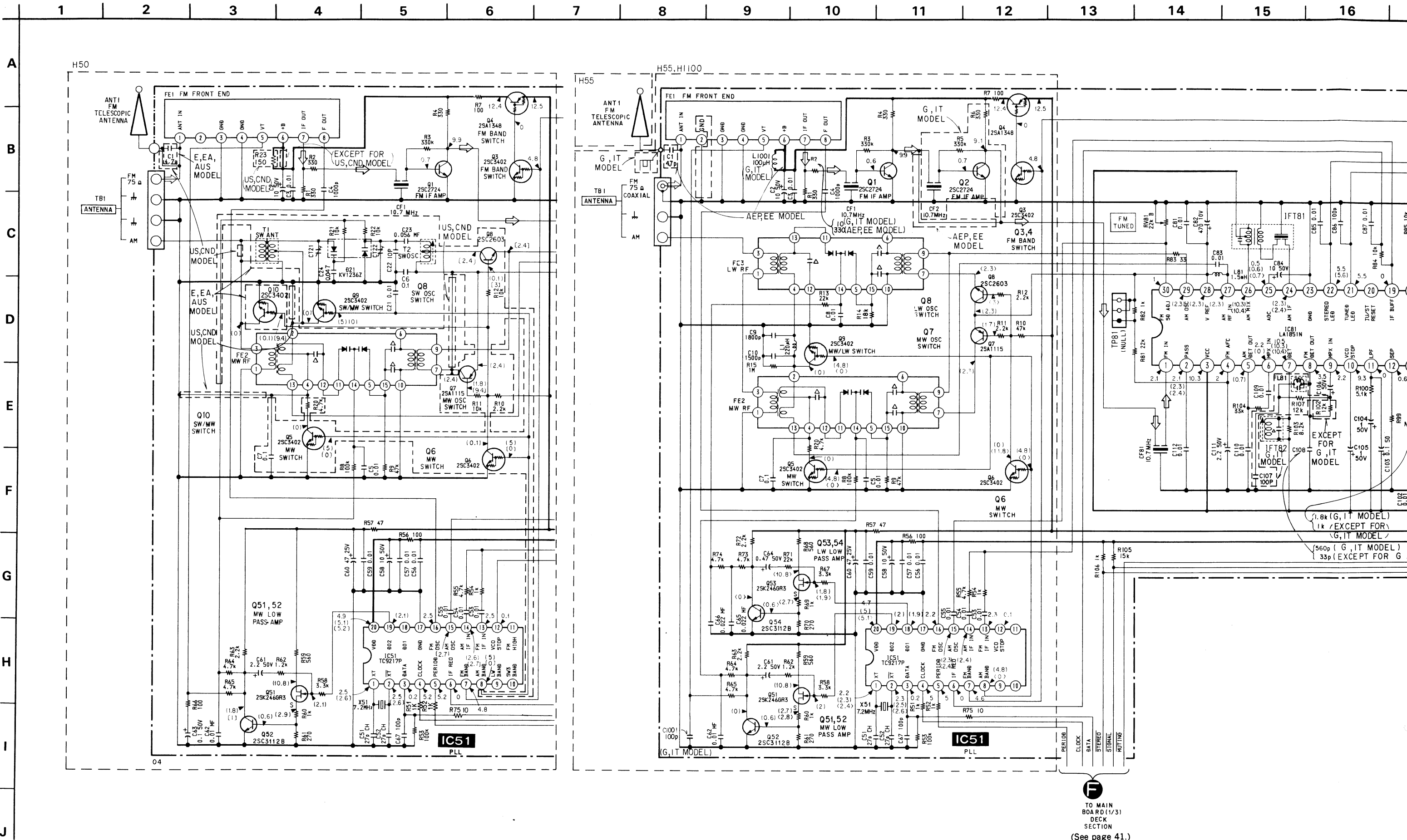


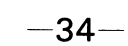
8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----



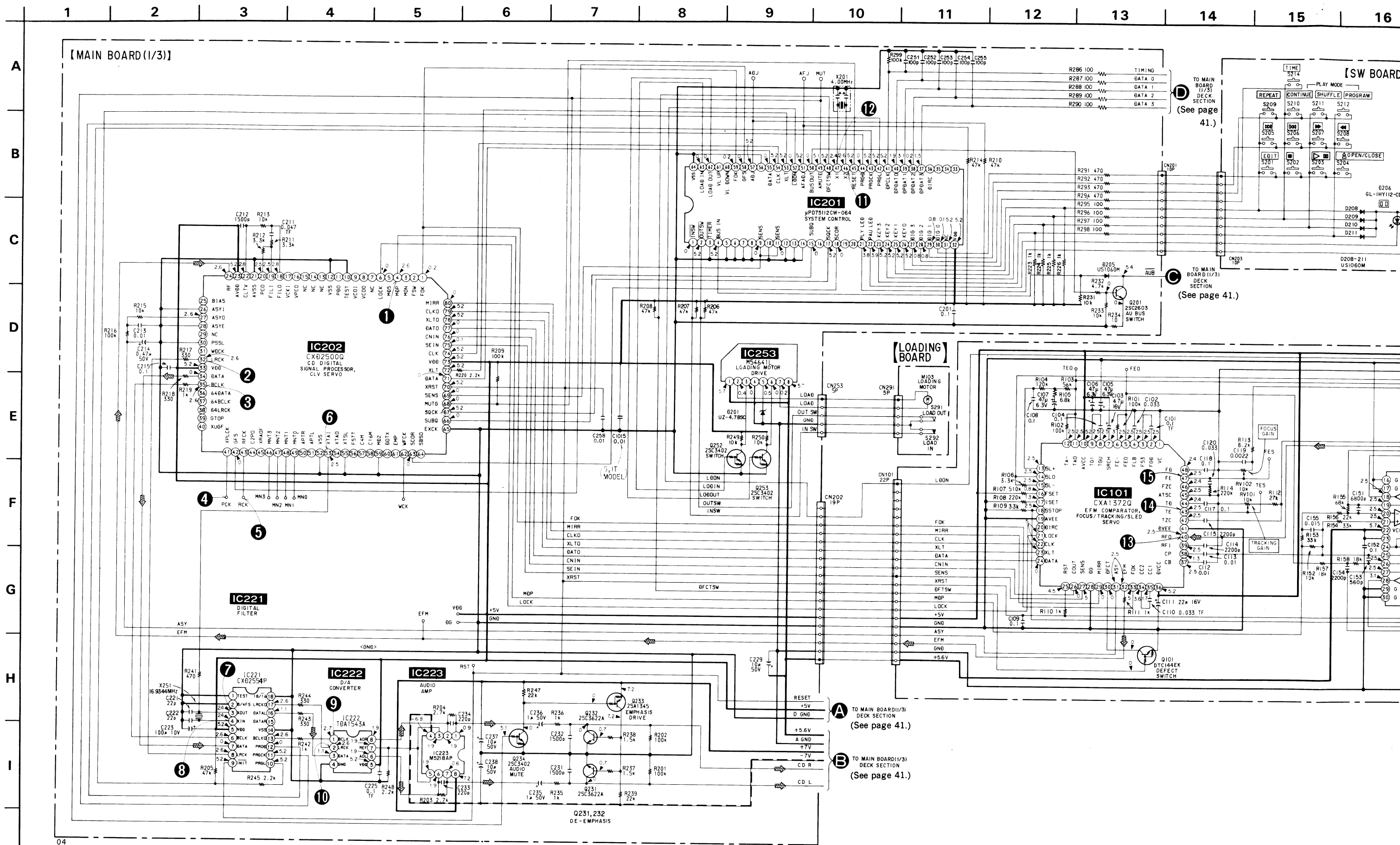
6-4. SCHEMATIC DIAGRAM—Tuner Section—

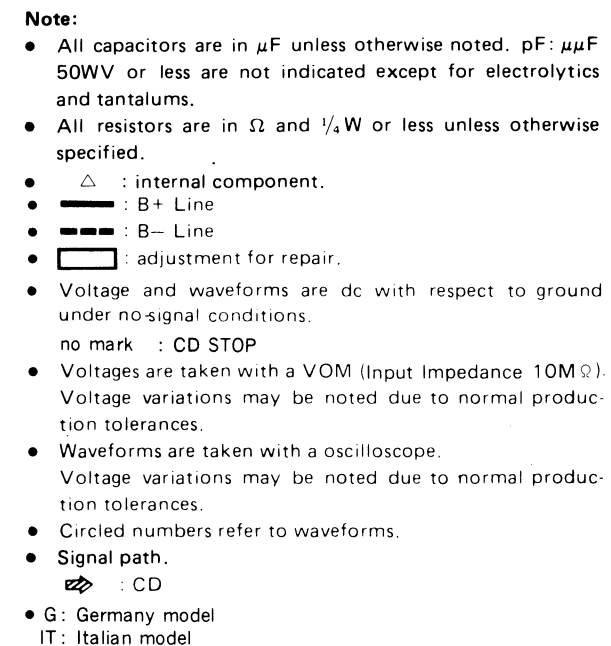
- Refer to page 49 for IC Block Diagrams.
- Refer to page 52 for FE1 FM Front End.






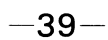
6-5. SCHEMATIC DIAGRAM—CD Section— • Refer to page 49 for IC Block Diagrams.

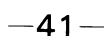


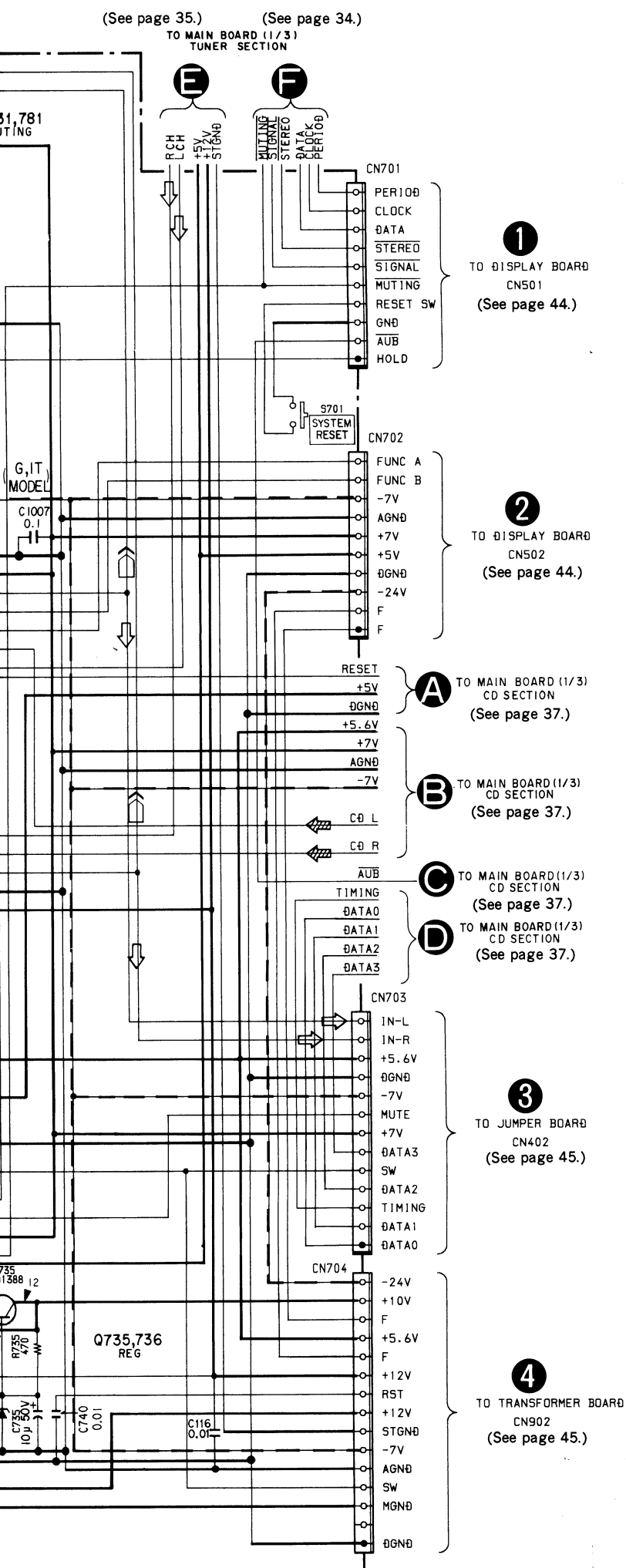


Note:
Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

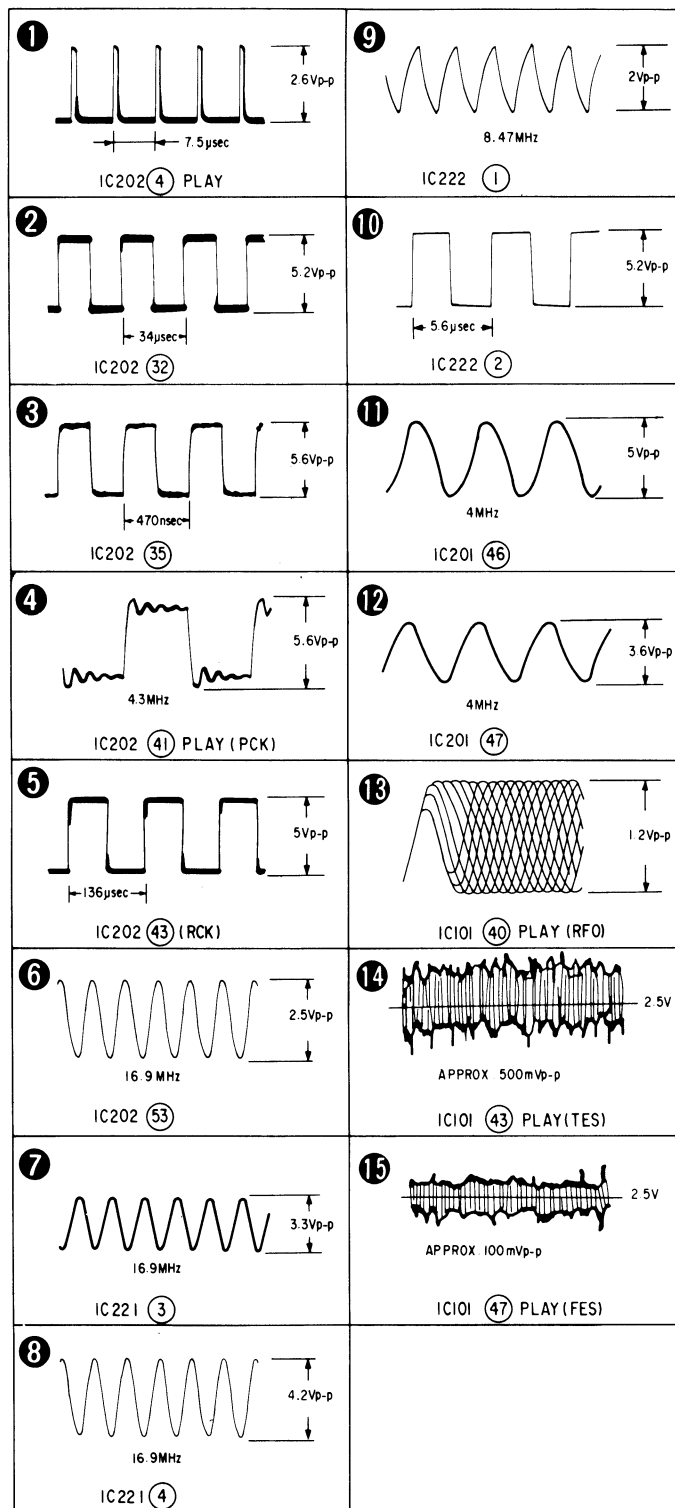
• Refer to page 49 for IC Block Diagrams.







Waveforms



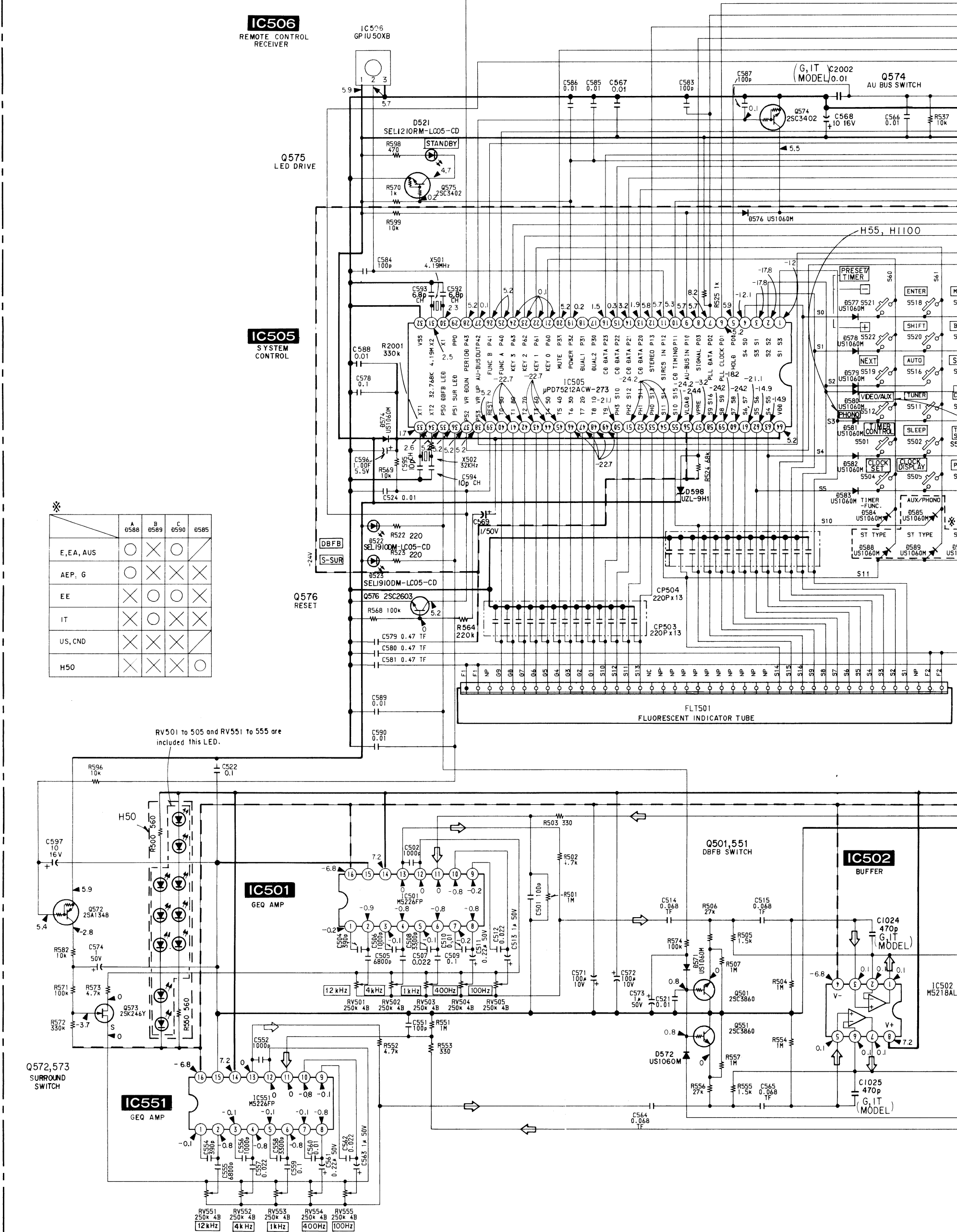
Note:

- All capacitors are in μF unless otherwise noted. pF: μμF
50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- : B+ Line
- - - : B- Line
- : adjustment for repair.
- Voltage is dc with respect to ground under no-signal conditions.
no mark : POWER ON
() : PLAY (DECK A)
< : REC
- Voltages are taken with a VOM (Input Impedance 10MΩ).
Voltage variations may be noted due to normal production tolerances.
- Signal path.
□ : FM
Σ : PB (DECK A)
⊗ : CD
□ : PB (DECK B)
□ : REC
- CND: Canadian model
G: Germany model
IT: Italian model
EE: East European model
EA: Saudi Arabia model
AUS: Australian model

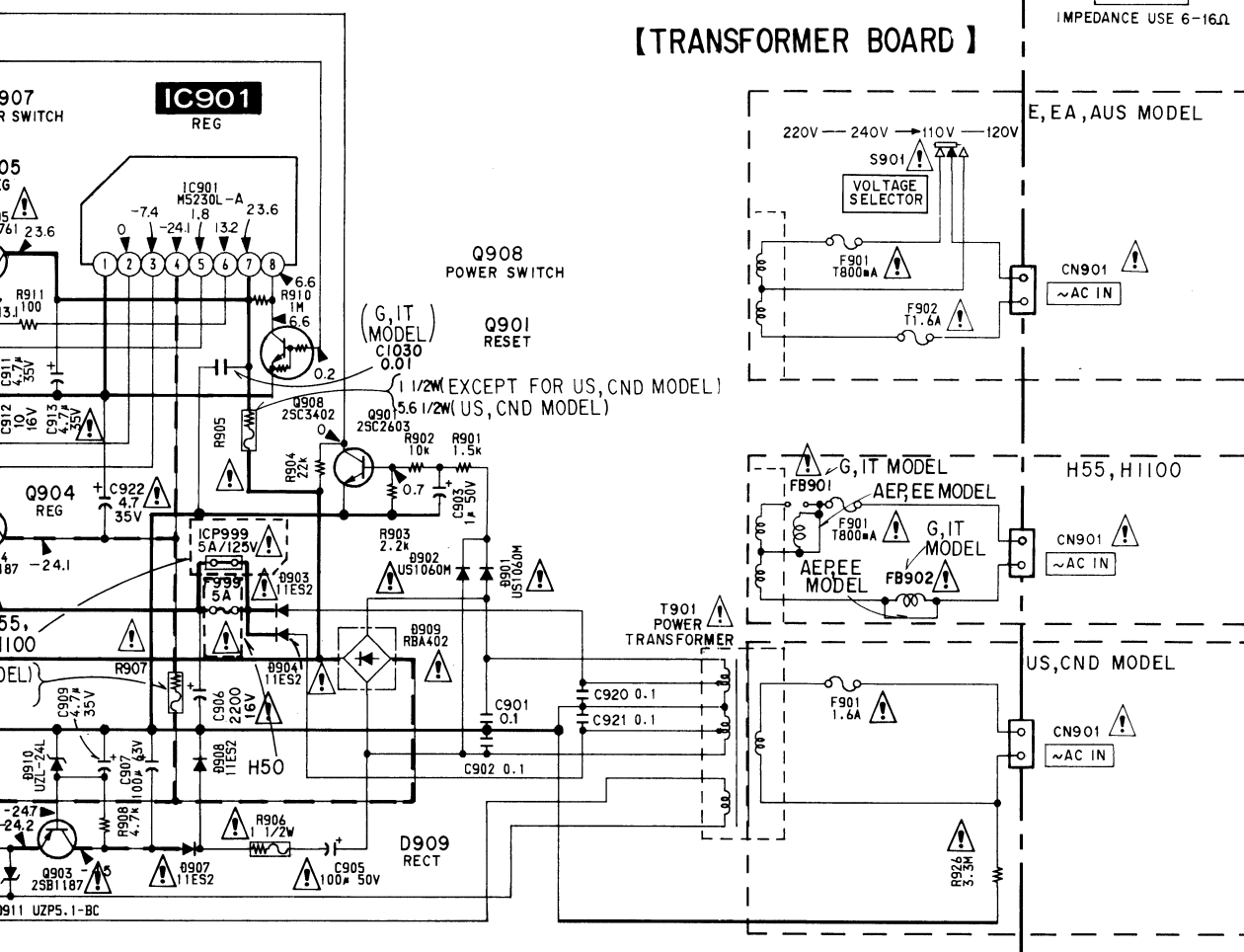
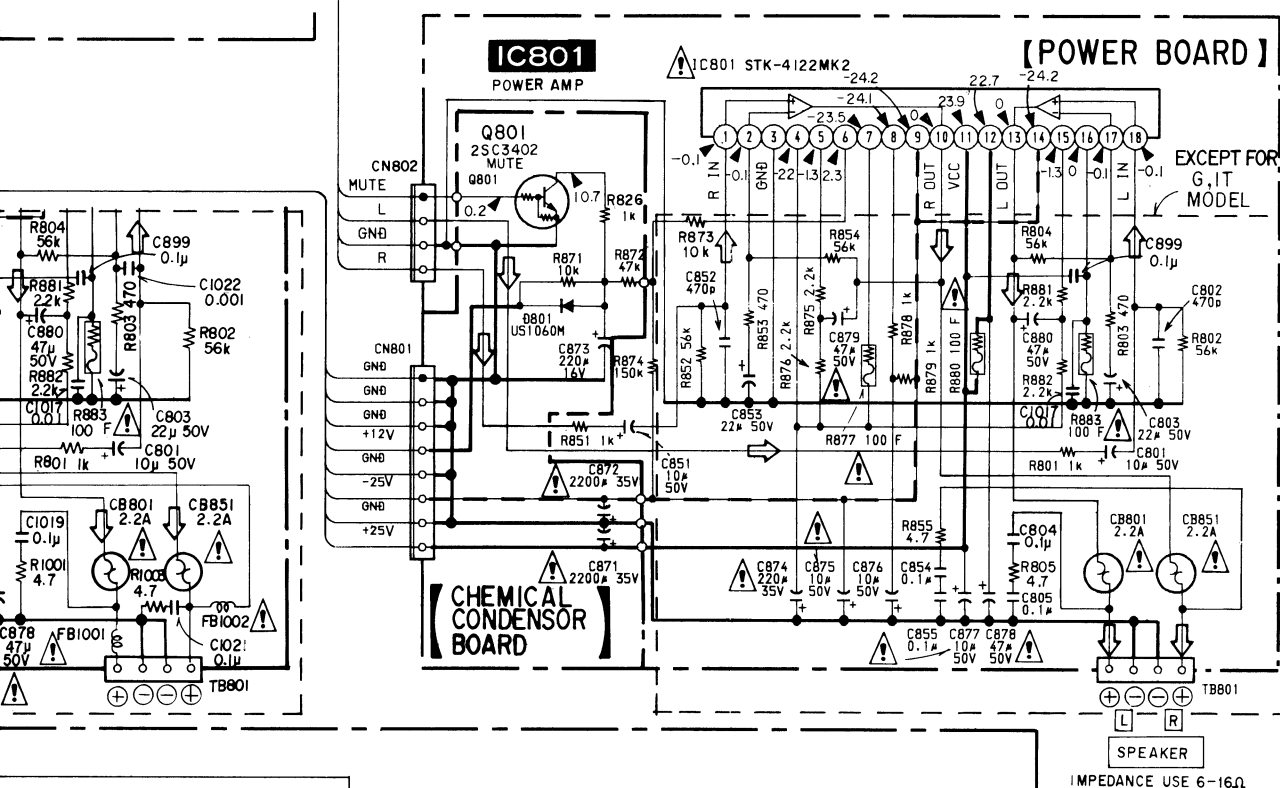
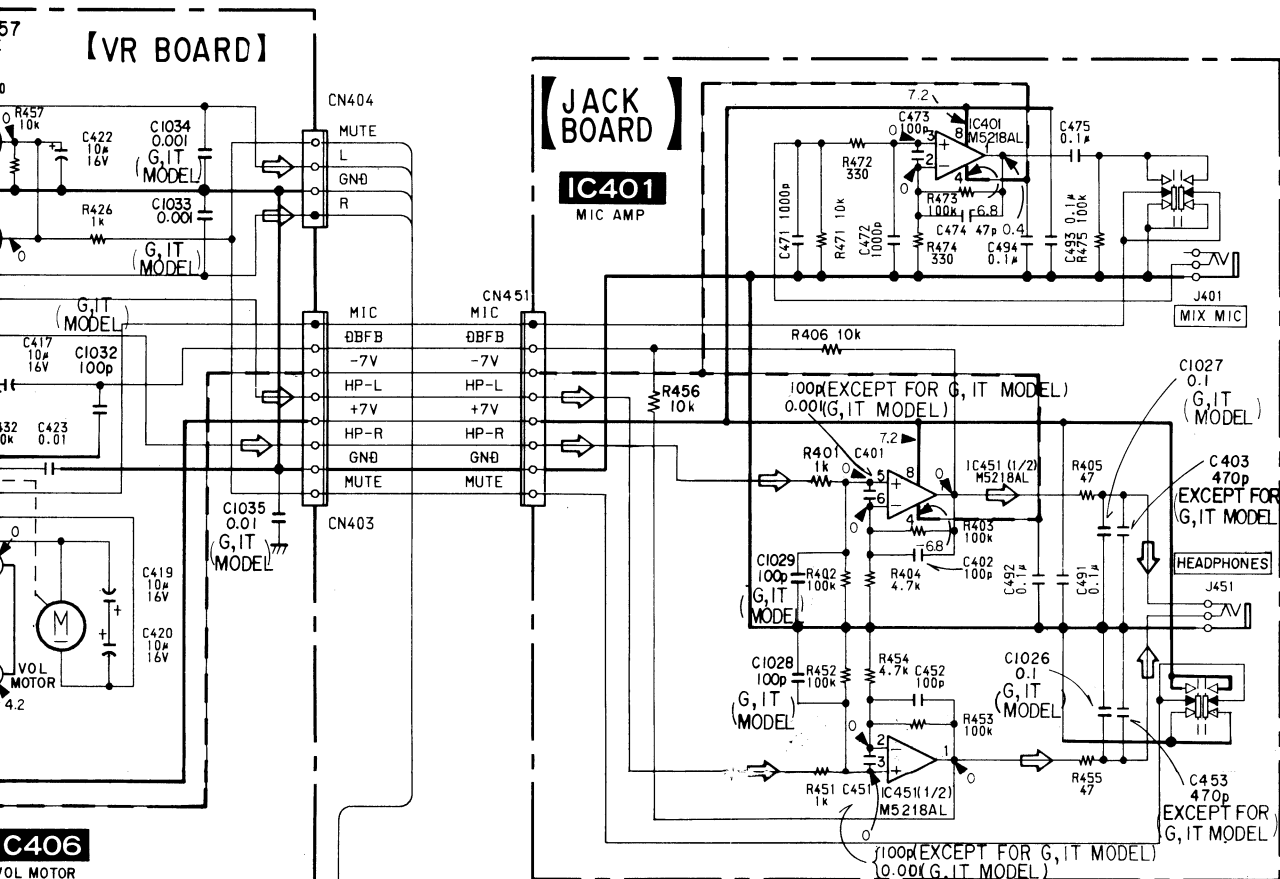
[DISPLAY BOARD]

	A 0588	B 0589	C 0590	D 0585
E, EA, AUS	○	×	○	×
AEP, G	○	×	×	×
EE	×	○	○	×
IT	×	○	×	×
US, CND	×	×	×	×
H50	×	×	×	○

RV501 to 505 and RV551 to 555 are included this LED.







● Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D406	G-13	IC502	G-9
D521	F-2	IC505	H-5
D522	E-2	IC506	F-2
D523	E-2	IC551	F-5
D571	G-4	IC801	C-14
D572	G-7	IC901	C-7
D574	I-7		
D576	I-6	Q406	H-13
D577	H-7	Q407	G-14
D578	H-7	Q456	H-13
D579	H-7	Q457	G-14
D580	H-3	Q501	G-8
D581	H-3	Q551	G-8
D582	H-3	Q572	G-4
D583	H-3	Q573	F-7
D584	H-4	Q574	I-4
D585(※1)	H-3	Q575	G-2
D588(※2)	H-3	Q576	H-4
D589(※3)	H-3	Q801	C-10
D590(※4)	H-3	Q901	A-8
D598	I-7	Q903	D-6
D801	C-10	Q904	D-6
D901	B-8	Q905	D-7
D902	B-8	Q906	D-8
D903	C-4	Q907	C-8
D904	C-5	Q908	C-8
D907	C-6		
D908	C-5		
D909	B-8		
D910	C-6		
D911	D-6		
D912	C-8		
IC401	I-13		
IC406	G-12		
IC451	J-13		
IC501	F-3		


※1 : Used on HCD-H50.



※2 : Used on AEP, G, E, EA and AUS model.


※3 : Used on IT and EE model.




※4 : Used on EE, E, EA and AUS model.

Note:

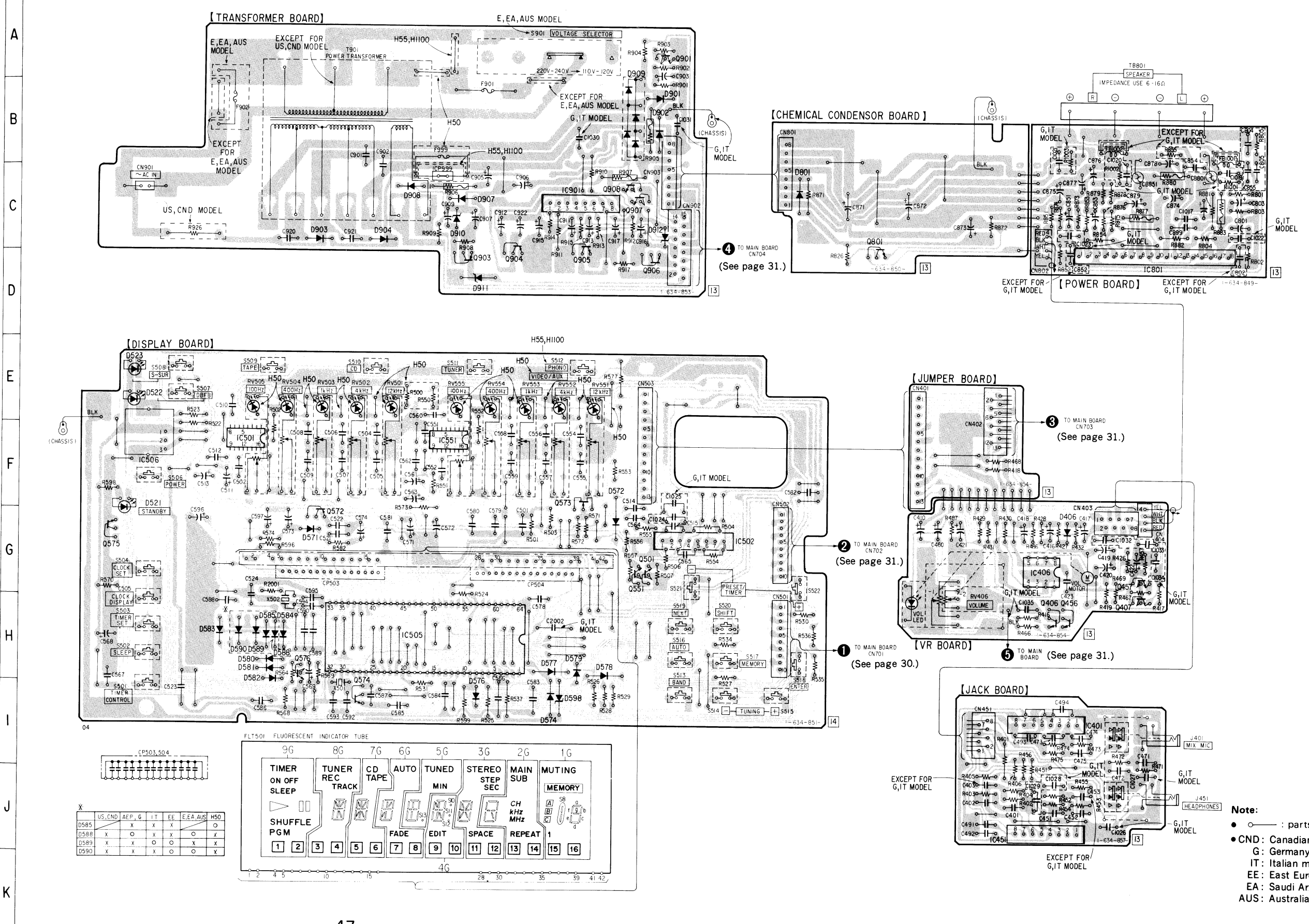
- All capacitors are in μF unless otherwise noted. $\text{pF} : \mu\text{F}$ 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
-  : fusible resistor.

Note:
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

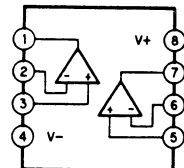
Note:
Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

-  : B+ Line
-  : B- Line
- Voltage is dc with respect to ground under no-signal conditions.
no mark : POWER ON
- Voltages are taken with a VOM (Input Impedance 10M Ω).
Voltage variations may be noted due to normal production tolerances.
- Signal path.
 : FM
- CND: Canadian model
G: Germany model
IT: Italian model
EE: East European model
EA: Saudi Arabia model
AUS: Australian model

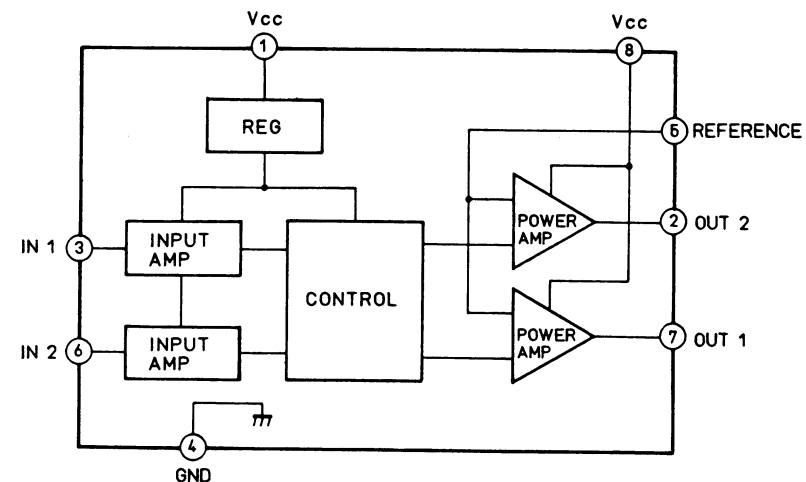
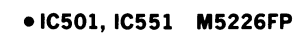
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
--	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----



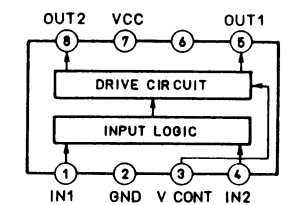
● IC51 TC9217P



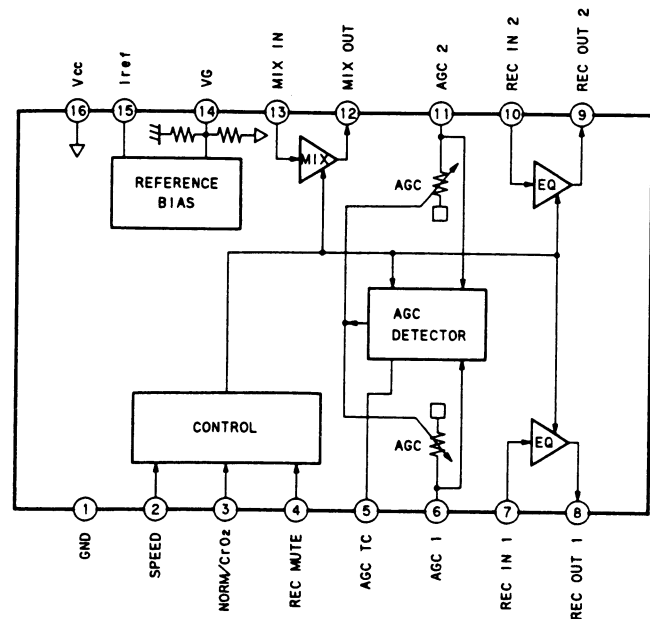
20



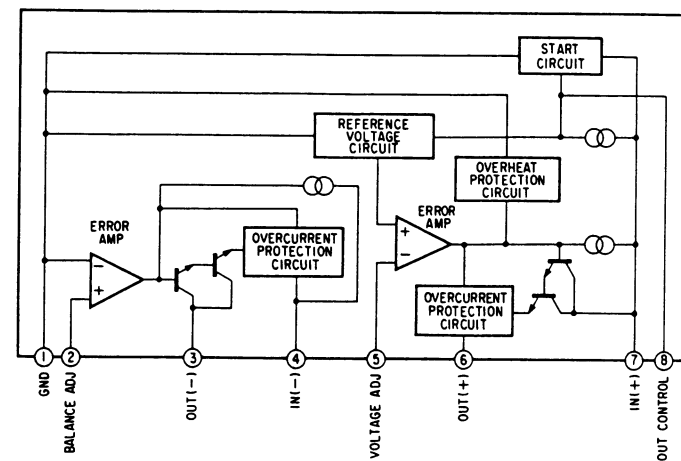
• **IC406 LB1639**



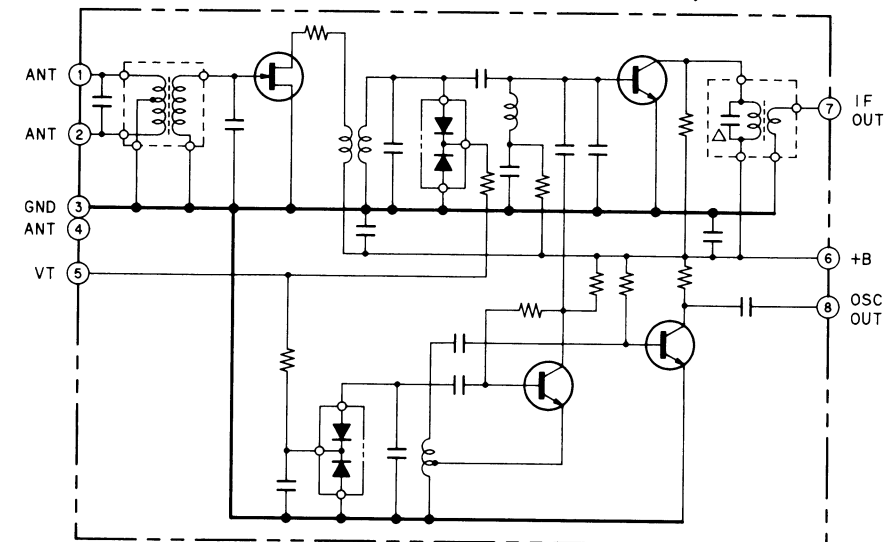
• IC704 CXA1298AP



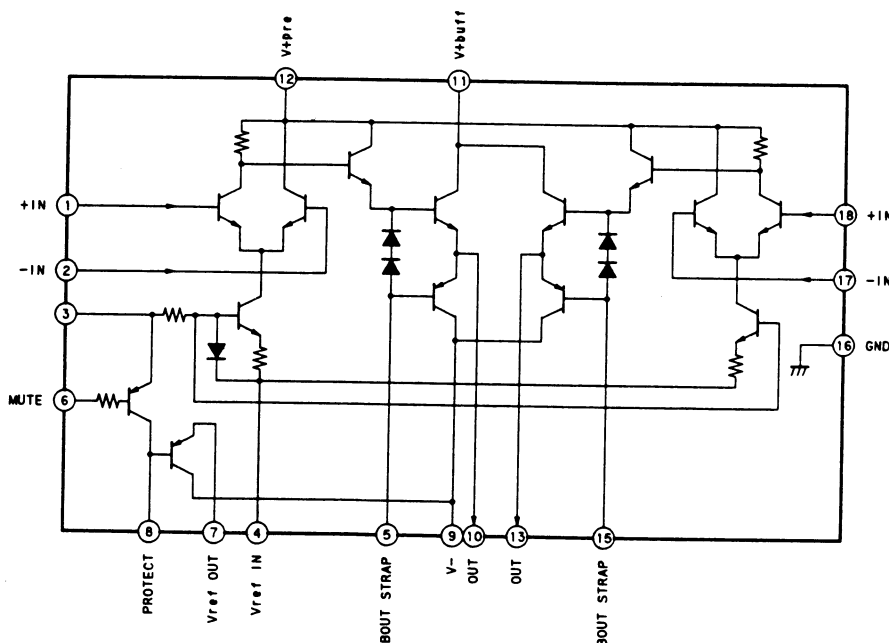
• IC901 M5230L



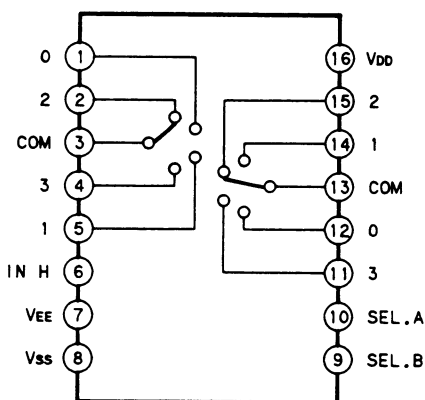
• FE1 FM Front End (US, CND, AEP, EE, E,EA, AUS)



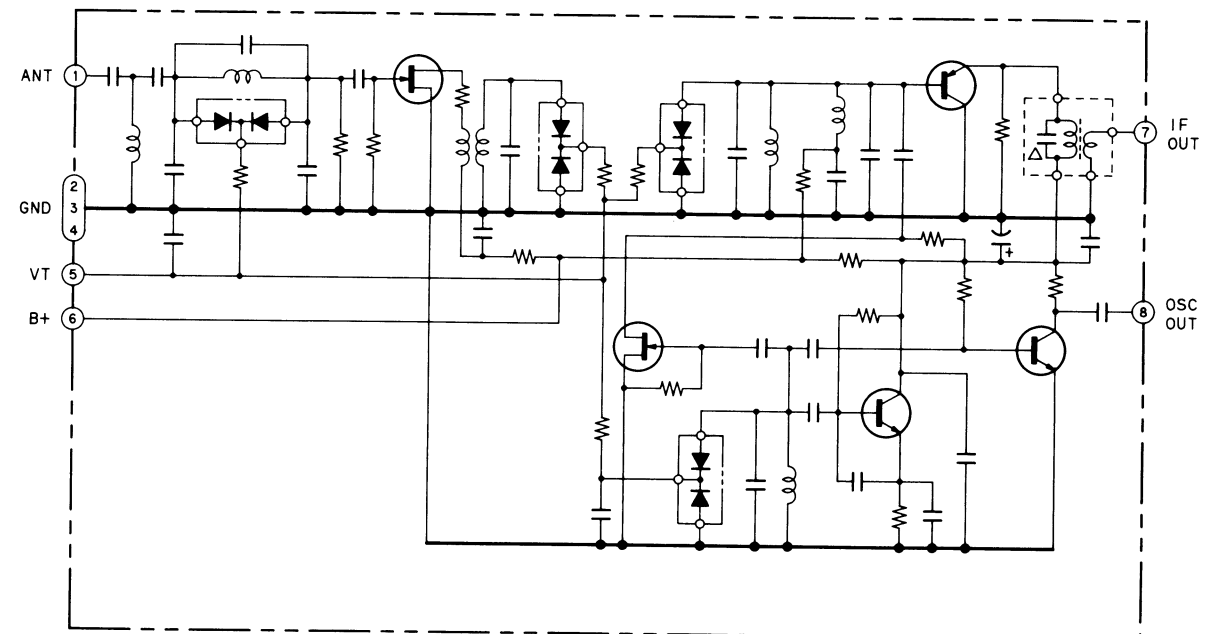
• IC801 STK-4122MK2



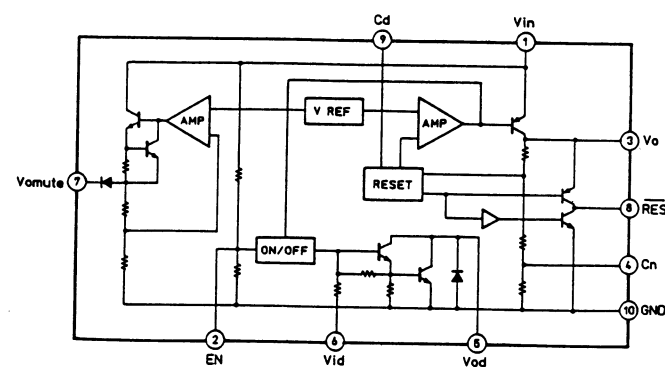
• IC705 M4052BPK



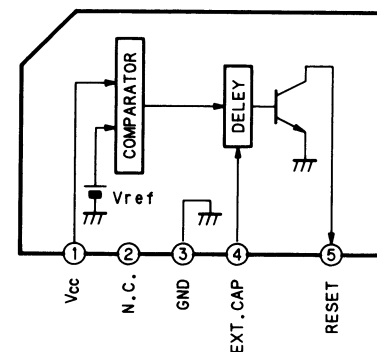
• FE1 FM Front End (G, IT)



• IC999 LA5601



• IC706 M51953BL



6-9. PIN FUNCTIONS
• IC505 Display Control (μPD75212ACW-273)

Pin No.	Pin Name	I/O	ACTIVE	Description	Hold
1	S3	O	H	Segment, keyscan output terminals	Low
2	S2				
3	S1				
4	S0				
5	INT4	I	L	HOLD input	input
6	SCK	O	—	CLOCK (TC9217P T-BUS)	
7	SO	I/O	—	DATA (TC9217P T-BUS)	
8	PO3	I	L	SIGNAL input	
9	INT0	I	L	AUDIO-BUS input	input
10	INT1	I	Down	CD display data, timng	
11	P12	I	L	Remote control input	
12	P13	I	L	STEREO input	
13	P20	I	—	CD display data	input
14	P21				
15	P22				
16	P23				
17	P30	I	L	DUAL 2 input	input
18	P31	I	L	DUAL 1 input	
19	P32	O	L	POWER port	
20	P33	O	L	MUTING	Low
21	P60	I	H	Keyscan input	input
22	P61				
23	P62				
24	P63				
25	P40	O	—	FUNCTION A output	Low
26	P41	O	—	FUNCTION B output	
27	P42	O	H	AUDIO-BUS output	
28	P43	O	L	PERIOD (TC9217P T-BUS)	
29	PP0	—	—	Not used (open)	—
30	X1	—	—	Main system clock 4.19MHz	—
31	X2				
32	Vss	—	—	GND terminal (0V)	—
33	XT1	—	—	Sub system clock 32.768kHz	—
34	XT2				
35	P50	O	L	DBFB	Low
36	P51	O	L	SURROUND	
37	P52	O	L	Volume DOWN	
38	P53	O	L	Volume UP	
39	RESET	I	L	System reset input terminal	—
40	T0	O	H	Digit output	Low
41	T1				

Pin No.	Pin Name	I/O	ACTIVE	Description	Hold
42	T2	O	H	Digit output	Low
43	T3				
44	T4				
45	T5				
46	T6				
47	T7				
48	T8				
49	T9	O	—	Not used (open)	Low
50	S15	O	H	Segment output	Low
51	S14				
52	S13				
53	S12	O	H	Segment output, specification distinction diode output	Low
54	S11				
55	S10				
56	V _{LOAD}	—	—	Pull-down resistor connect terminal of FIP driver	—
57	V _{PRE}	—	—	Power supply terminal of FIP driver output buffer	—
58	S9	O	H	Segment output	Low
59	S8				
60	S7				
61	S6	O	H	Segment, keyscan output teminal	Low
62	S5				
63	S4				
64	V _{DD}	—	—	Power supply terminal (5V)	—

[KEY, DIODE MATRIX]

	Key						Diode	
	S5	S4	S3	S2	S1	S0	S10	S11
P60	CLOCK	TIMER CONTROL	VIDEO	DUAL	STATION UP	STATION DOWN	TIMER FUNCTION	A
P61	DISPLAY	SLEEP	TUNER	AUTO/MANUAL	SHIFT	ENTER	VIDEO/PHONO	B
P62	POWER	TIMER SET	CD	SURROUND	BAND	MERORY	IF+50kHz	C
P63	—	—	TAPE	DBFB	TUNING UP	TUNING DOWN	IF-50kHz	—

- 1) Pressing the key twice is not allowed. (First pressing is preceded)
- 2) The remote control precedes the input with the pey.
- 3) Input the diode in resetting and in releasing HOLD.

● IC201 CD Controller (μ PD75112CW-064)

Pin No.	Pin Name	I/O	Description
1	INSW	I	Disk tray clamp-end input
2	OUTSW	I	Disk tray open-end input
3	(TIMER)	I	Timer start input
4	BSIN	I	Audio bus input
5	Not Used	I	GND
6	Not Used	I	GND
7	Not Used	I	GND
8	Not Used	I	GND
9	SENS	I	SENS input, and the state input of every kind from CXD2500Q and CXA1372Q
10	Not Used	I	GND
11	SENS	I	SENS input, and the state input of every kind from CXD2500Q and CXA1372Q
12	Not Used	I	GND
13	Not Used	I	GND
14	Not Used	I	GND
15	SUBQ	I	Q data serial input from CXD2500Q
16	Not Used	O	OPEN
17	SQCLK	O	Sub-code Q data read-in clock output for CXD2500Q
18	SCOR	I	Sub-code synchro S0 and S1 detect input
19	Not Used	O	OPEN
20	Not Used	O	OPEN
21	PLAYL	O	Play LED ON/OFF output
22	PAUSL	O	Pause LED ON/OFF output
23	KEY3	I	Key data input
24	KEY2	I	Key data input
25	KEY1	I	Key data input
26	KEY0	I	Key data input
27	DG3	O	Key-scan digit output
28	DG2	O	Key-scan digit output
29	DG1	O	Key-scan digit output
30	DG0	O	Key-scan digit output
31	Not Used	I	+5V
32	VDD	I	+5V
33	Not Used	O	OPEN
34	Not Used	O	OPEN
35	Not Used	O	OPEN
36	Not Used	O	On time 1 track jump, tracking drive is inversed output for CXA1372Q
37	DPDAT3	O	Display data output for tuner amp micon
38	DPDAT2	O	Display data output for tuner amp micon
39	DPDAT1	O	Display data output for tuner amp micon
40	DPDAT0	O	Display data output for tuner amp micon
41	DPCLK	O	Display data transmission clock output for tuner amp micon
42	PRGL	O	Serial data latch pulse output for digital filter CXD2551P
43	PRGCK	O	Serial clock output for digital filter CXD2551P
44	PRGD	O	Serial clock output for digital filter CXD2551P

Pin No.	Pin Name	I/O	Description
45	RESET	I	System reset input terminal (LOW ACTIVE)
46	X2	I	System clock input 4.19MHz
47	X1	I	System clock input 4.19MHz
48	DFCTSW	O	From focus in till spindle kick is ON except then is OFF.
49	AMUTE	O	Muting ON/OFF output
50	BSOUT	O	Audio bus output
51	AFADJ	I	Test mode input, and on time POWER "L" is test move ment of every kind
52	LDON	O	Laser diode ON/OFF output
53	XLT	O	Serial data latch pulse output for CXD2500Q
54	CLK	O	Serial clock output for CXD2500Q
55	DATA	O	Serial data output for CXD2500Q
56	Not Used	I	GND
57	ADJ	I	Test mode input, "L" is GFS no check.
58	GFS	I	GFS OK/NO Good input
59	FOK	I	Focus OK NO Good input
60	Not Used	O	OPEN
61	Not Used	O	OPEN
62	LODOUT	O	Disc tray loading-out output
63	LODIN	O	Disc tray loading-in output
64	VSS	I	GND

SECTION 7 EXPLODED VIEWS

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some differences from the original one.

• Color Indication of Appearance Parts

Example:

KNOB, BALANCE (WHITE)...(RED)

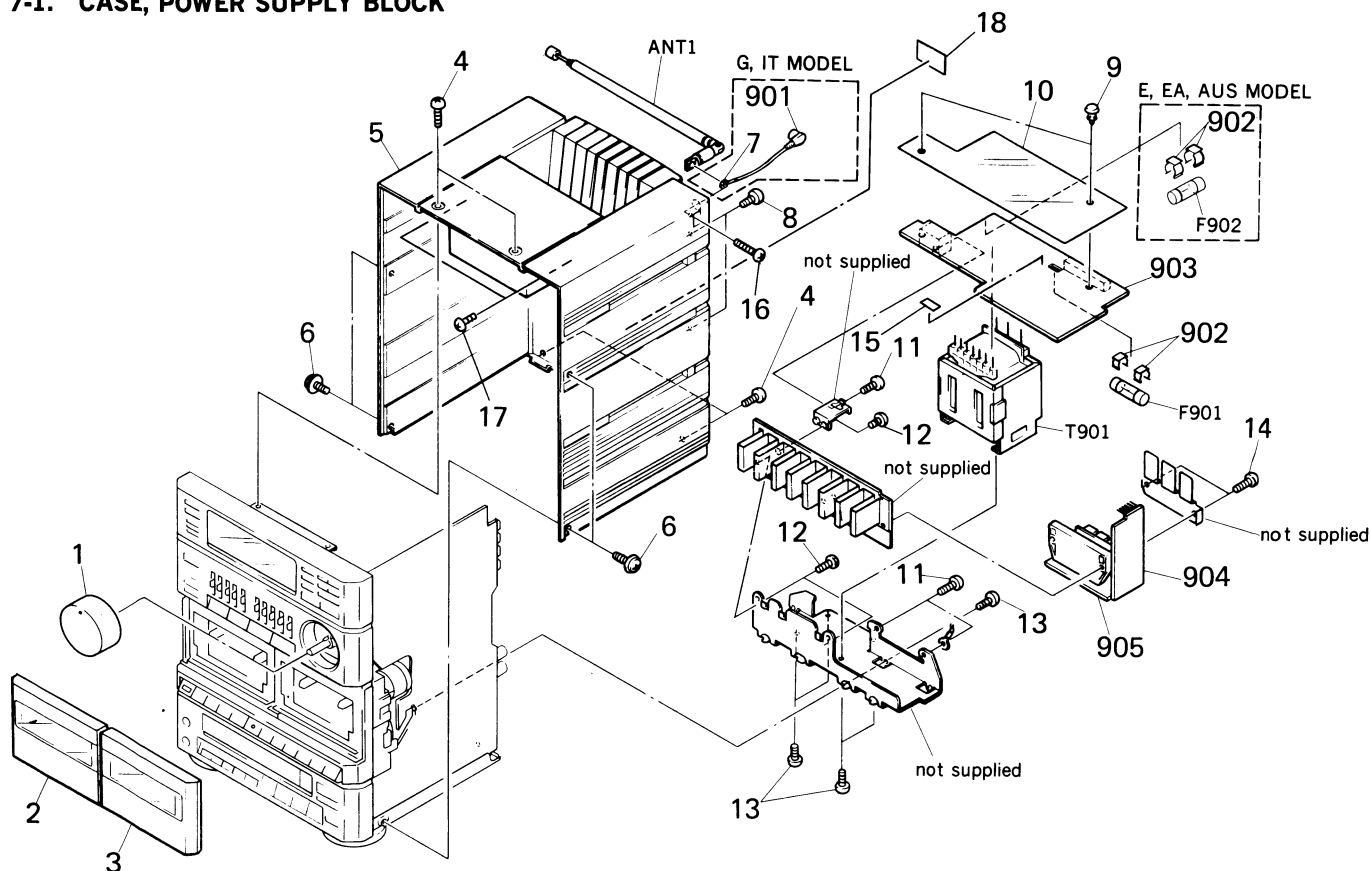
Parts Color Cabinet's Color

- G : Germany model
- IT : Italian model
- EE : East European model
- EA : Saudi Arabia model
- AUS : Australian model

The components identified by mark or dotted line with mark are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

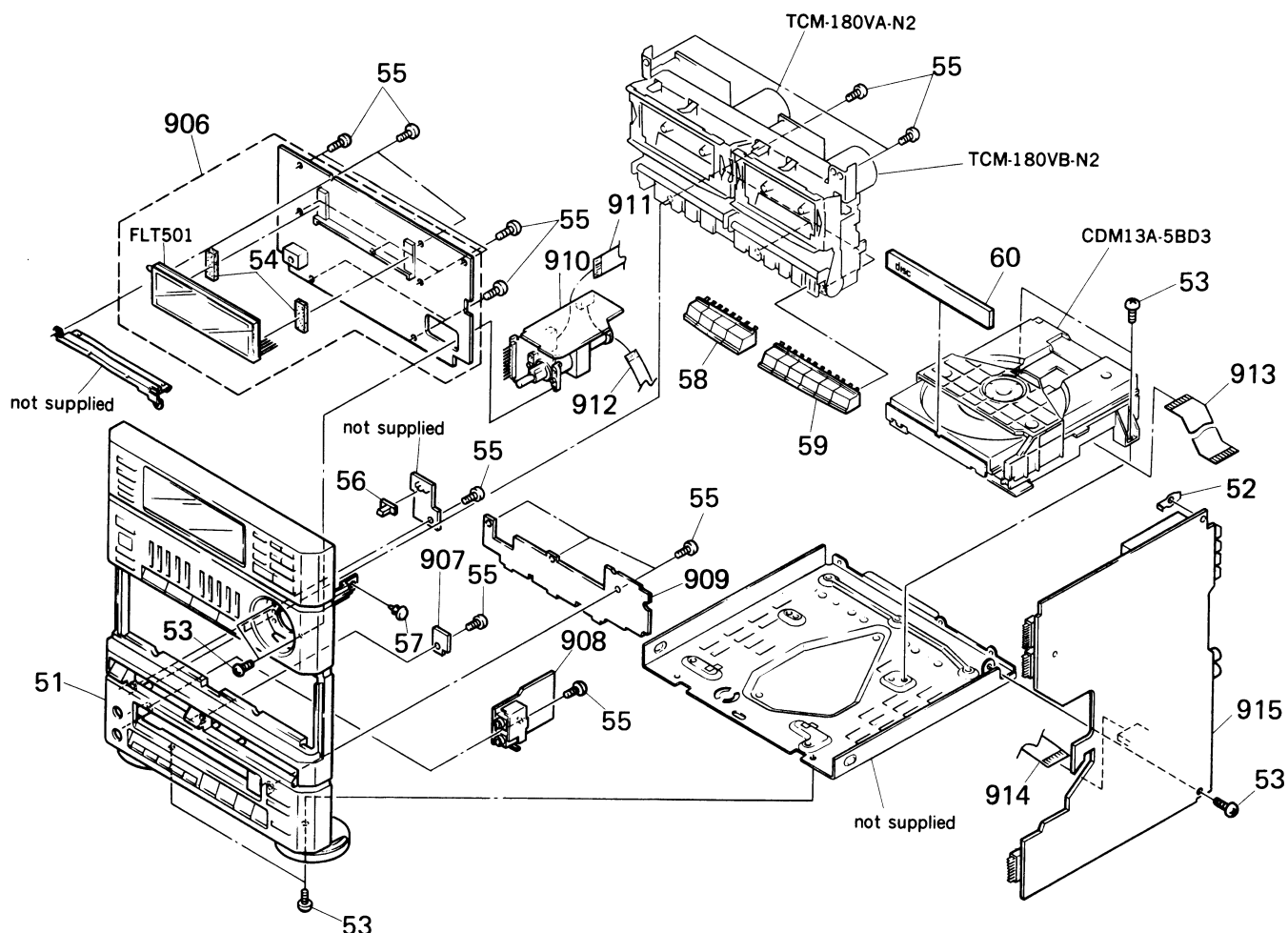
7-1. CASE, POWER SUPPLY BLOCK



Ref. No.	Part No.	Description	Remark
1	X-4936-803-1	KNOB (VOLUME) ASSY	
2	X-4941-502-1	LID (A) ASSY, CASSETTE	
3	X-4941-501-1	LID (B) ASSY, CASSETTE	
4	7-682-549-09	SCREW +BVTT 3X10 (S)	
5	X-4936-802-1	CASE ASSY (US, Canadian, H55)	
5	X-4936-804-1	CASE ASSY (E, EA, AUS)	
5	4-936-804-11	CASE (H1100)	
6	3-704-366-01	SCREW (CASE) (M3X8)	
7	7-623-508-11	EARTH, LUG 3 (G, IT)	
8	7-685-648-79	SCREW +BVTP 3X12 TYPE2 N-S	
9	4-812-134-31	RIVET NYLON, 3.5	
10	* 4-936-816-11	COVER (INSULATING)	
11	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
12	7-685-645-79	SCREW +BVTP 3X6 TYPE2 IT-3	
13	7-682-547-04	SCREW +BVTT 3X6 (S)	

Ref. No.	Part No.	Description	Remark
14	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3	
15	3-701-947-10	LABEL (T800MA), FUSE (E, AUS)	
16	7-682-549-09	SCREW +BVTP 3X10 (S) (H50, H55)	
17	7-685-649-79	SCREW +BVTP 3X14 TYPE2 N-S (H50, H55)	
18	* 4-941-548-01	LABEL, CLASS 1 (EXCEPT US, Canadian)	
901	* 1-562-908-11	CONNECTOR, FEMALE (NO SHIELD) (G, IT)	
902	1-533-213-31	HOLDER, FUSE	
903	* 1-634-853-11	TRANSFORMER BOARD	
904	* 1-634-850-11	CHEMICAL CONDENSOR BOARD	
905	* 1-634-849-11	POWER BOARD	
ANT1	1-501-270-00	ANTENNA, TELESCOPIC (H50, H55)	
F901	1-532-215-00	FUSE, TIME-LAG (T0.8A) (EXCEPT US, Canadian)	
F901	1-532-742-11	FUSE, GLASS TUBE (1.6A) (US, Canadian)	
F902	1-532-259-00	FUSE, TIME-LAG (T1.6A) (E, EA, AUS)	
T901	1-450-055-11	TRANSFORMER, POWER (E, EA, AUS)	
T901	1-450-057-11	TRANSFORMER, POWER (US, Canadian)	
T901	1-450-463-11	TRANSFORMER, POWER (H55, H1100)	

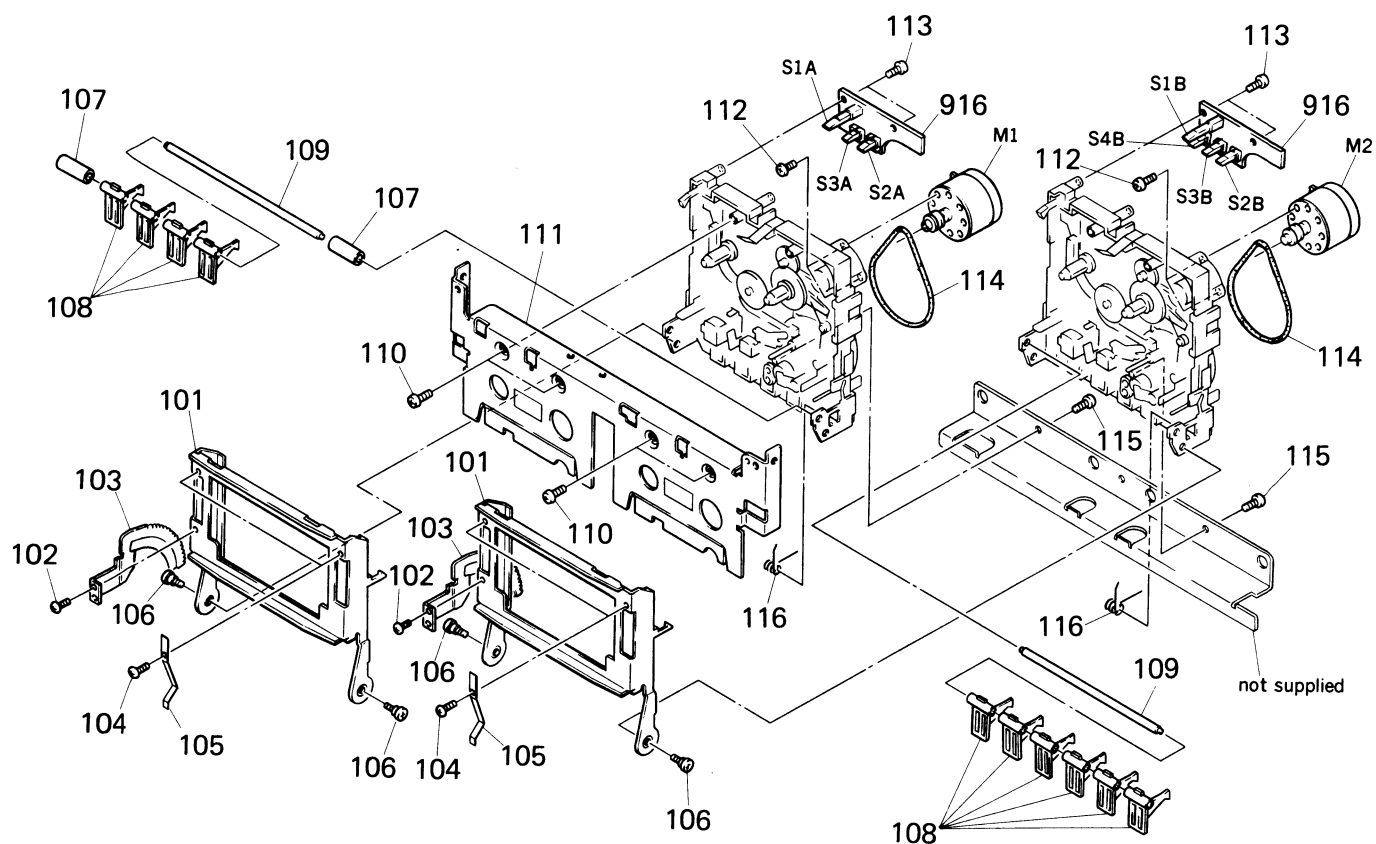
7-2. FRONT PANEL, MAIN BOARD BLOCK



Ref. No.	Part No.	Description	Remark
51	X-4941-509-1	PANEL ASSY. FRONT (H50)	
51	X-4941-503-1	PANEL ASSY. FRONT (H55)	
51	X-4941-504-1	PANEL ASSY. FRONT (H1100)	
52	* 4-925-530-01	PLATE, GROUND	
53	7-682-547-04	SCREW +BVT 3X6 (S)	
54	* 4-932-810-11	CUSHION (FL)	
55	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
56	4-936-868-01	KNOB (DOLBY)	
57	4-812-134-31	RIVET NYLON, 3.5	
58	4-936-872-01	BUTTON (A)	
59	4-936-873-01	BUTTON (B)	
60	4-936-833-11	PANEL, LOADING	
906	* A-4341-551-A	DISPLAY BOARD, COMPLETE (E, EA, AUS)	
906	* A-4345-097-A	DISPLAY BOARD, COMPLETE (AEP)	
906	* A-4345-102-A	DISPLAY BOARD, COMPLETE (US, Canadian)	
906	* A-4345-107-A	DISPLAY BOARD, COMPLETE (G)	
906	* A-4345-109-A	DISPLAY BOARD, COMPLETE (EE)	
906	* A-4345-110-A	DISPLAY BOARD, COMPLETE (IT)	

Ref. No.	Part No.	Description	Remark
907	* 1-634-856-11	REC LED BOARD	
908	* 1-634-857-11	JACK BOARD	
909	* 1-634-852-11	SW BOARD	
910	* 1-634-854-11	VR BOARD (INCLUDING JUMPER BOARD)	
911	1-575-672-11	WIRE, FLAT TYPE (13 CORE)	
912	1-575-674-11	WIRE, FLAT TYPE (8 CORE)	
913	1-535-832-12	JUMPER, FILM (WITH TERMINAL)	
914	1-575-673-11	WIRE, FLAT TYPE (15 CORE)	
915	* A-4345-096-A	MAIN BOARD, COMPLETE (AEP)	
915	* A-4345-101-A	MAIN BOARD, COMPLETE (US, Canadian)	
915	* A-4345-106-A	MAIN BOARD, COMPLETE (G, IT)	
915	* A-4345-108-A	MAIN BOARD, COMPLETE (EE)	
915	* A-4345-111-A	MAIN BOARD, COMPLETE (E, EA, AUS)	
FLT501	1-519-577-11	INDICATOR TUBE, FLUORESCENT	

7-3. MD CHASSIS BLOCK

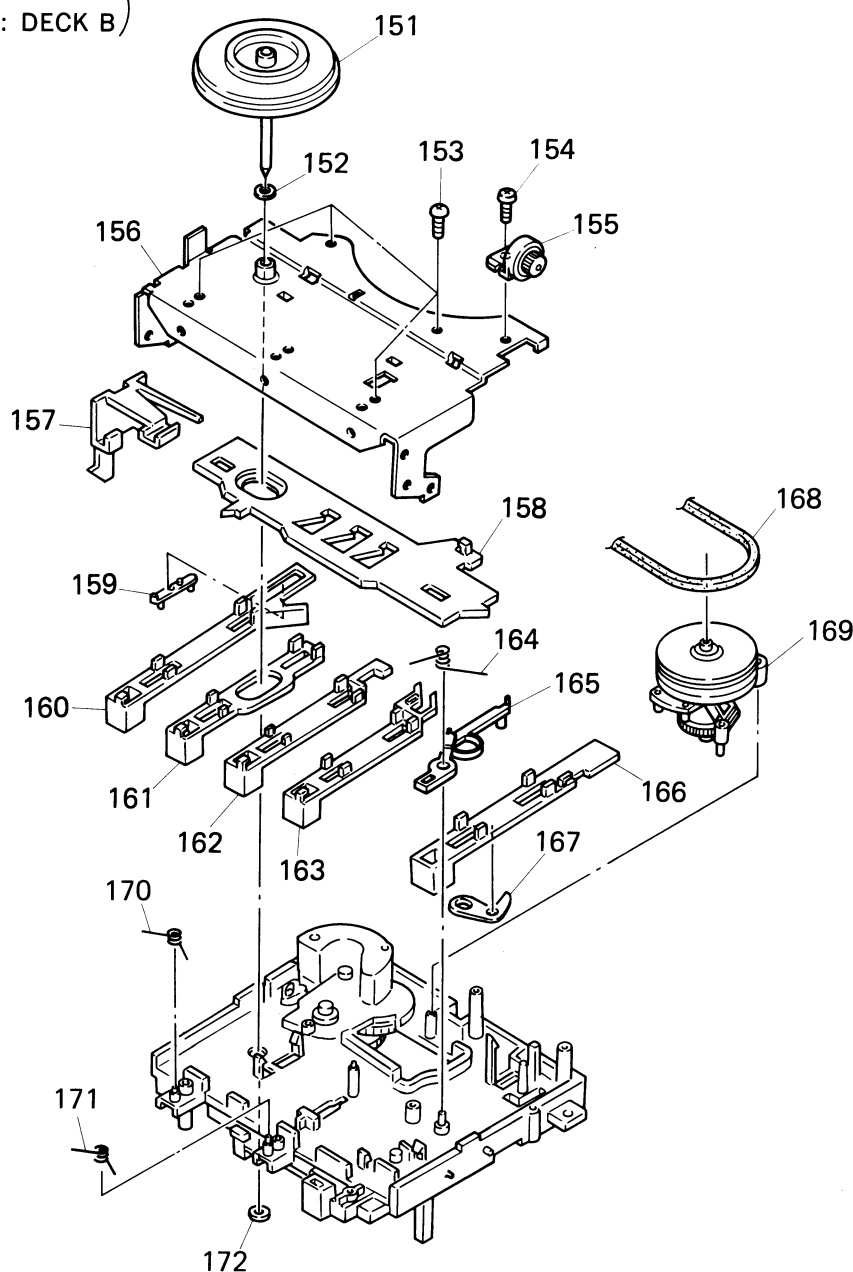


Ref. No.	Part No.	Description	Remark
101	3-358-282-01	HOLDER (FH). CASSETTE	
102	7-621-255-25	SCREW +PTT 2X4 (S)	
103	* 3-358-276-01	RACK, GEAR	
104	7-621-255-10	SCREW +PTT 2X3 (S)	
105	3-358-280-01	SPRING (CASSETTE HOLDER FH)	
106	3-358-277-01	SCREW, STEP	
107	* 3-358-216-01	COLLAR (DECK A)	
108	3-358-268-01	LEVER (BUTTON BASE B)	
109	3-358-242-01	SHAFT (BUTTON SHAFT)	
110	7-685-534-19	SCREW +BTP 2.6X8	
111	X-4936-821-1	JOINT (UPPER) ASSY	
112	7-621-775-20	SCREW +B 2.6X5	
113	7-685-133-19	SCREW +BTP 2.6X6 TYPE2 N-S	
114	3-358-230-01	BELT (A1)	
115	4-928-635-01	SCREW, +BV (2.6X8) TAPPING	
116	3-358-278-01	SPRING (LOADING FH), TORSION	

Ref. No.	Part No.	Description	Remark
916	* 1-635-160-11	SWITCH (A) BOARD (DECK A)	
916	* 1-635-160-11	SWITCH (B) BOARD (DECK B)	
M1	X-3358-211-1	MOTOR (A) ASSY (DECK A)	
M2	X-3358-211-1	MOTOR (B) ASSY (DECK B)	
S1A	1-572-335-11	SWITCH, LEAF (Cr02) (DECK A)	
S1B	1-572-335-11	SWITCH, LEAF (Cr02) (DECK B)	
S2A	1-571-736-11	SWITCH, LEAF (MD POWER) (DECK A)	
S2B	1-571-736-11	SWITCH, LEAF (MD POWER) (DECK B)	
S3A	1-571-736-11	SWITCH, LEAF (PLAY) (DECK A)	
S3B	1-571-736-11	SWITCH, LEAF (PLAY) (DECK B)	
S4B	1-571-736-11	SWITCH, LEAF (REC) (DECK B)	

7-4. MECHANISM DECK BLOCK (1)

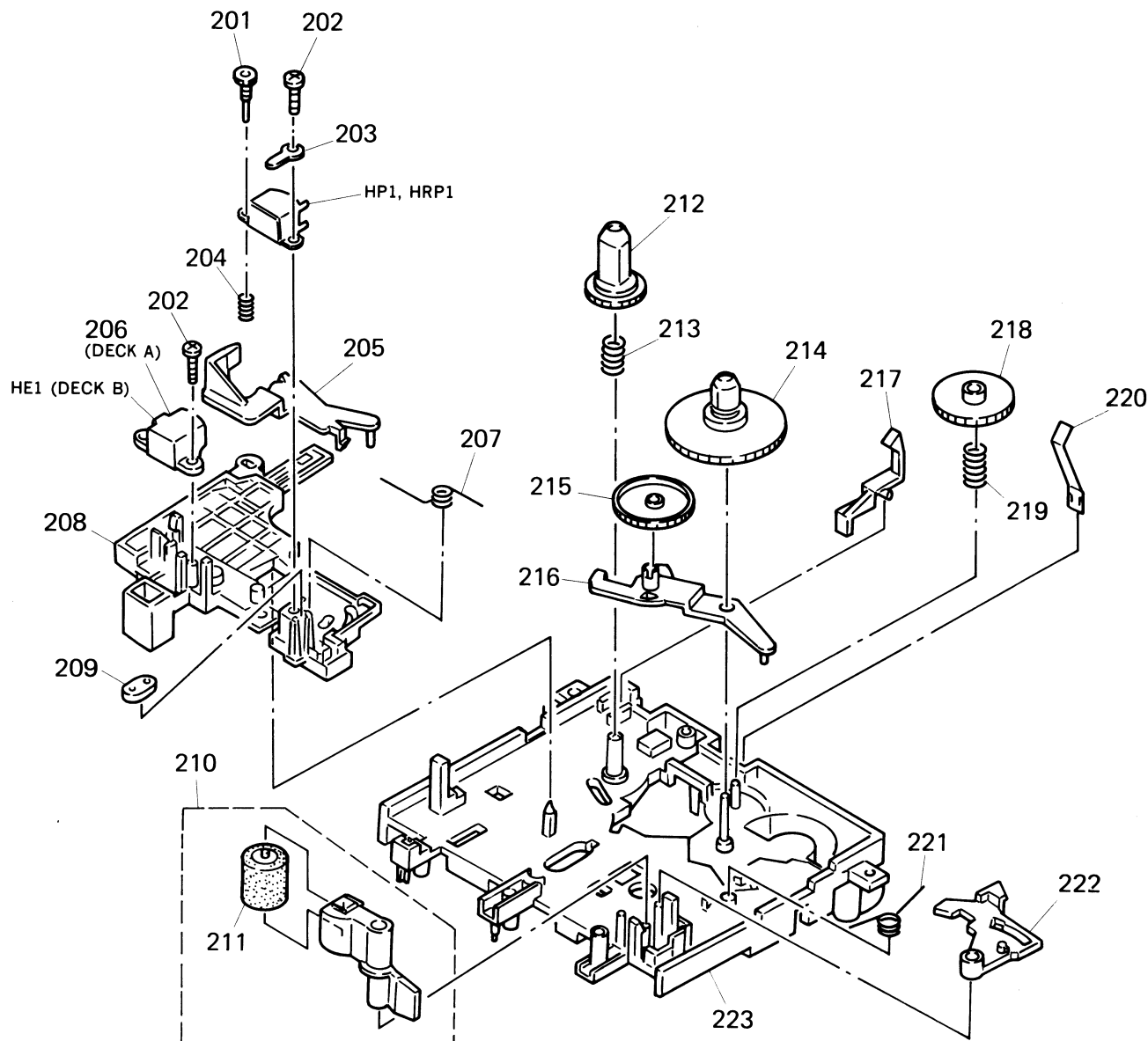
(TCM-180VA-N2: DECK A)
(TCM-180VB-N2: DECK B)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
151	X-3358-205-1	FLYWHEEL (A) ASSY		164	3-358-214-01	SPRING (LOCK). TORSION (DECK A)	
152	3-701-437-01	WASHER		164	3-358-233-01	SPRING (REC-LOCK). TORSION (DECK B)	
153	7-685-133-19	SCREW +P 2.6X6 TYPE 1		165	* 3-358-251-01	LEVER (TENSION DETECTION ARM)	
154	7-685-870-01	SCREW +BVTT 3X5 (S)		166	3-358-259-01	SLIDER (REC) (DECK B)	
155	4-919-393-01	DAMPER		167	* 3-358-204-01	LEVER (REC SAFETY) (DECK B)	
156	* X-3358-216-1	BRACKET (FH) ASSY		168	3-358-230-01	BELT (A1)	
157	3-358-281-01	SLIDER (HOLDER LOCK FH)		169	X-3358-202-1	LEVER (FR ARM) ASSY	
158	* 3-358-249-01	SLIDER (LOCK PLATE)		170	3-358-232-01	SPRING (S-P F-R). TORSION (DECK B)	
159	* 3-358-226-01	LEVER (PAUSE LEVER) (DECK B)		170	3-358-279-01	SPRING (STOP). TORSION (DECK A)	
160	3-358-260-01	SLIDER (PAUSE) (DECK B)		171	3-358-232-01	SPRING (S-P F-R). TORSION	
161	3-358-256-01	SLIDER (STOP/EJECT)		172	7-623-921-01	RING, RETAINING, CAPSTAN	
162	3-358-257-01	SLIDER (FF)					
163	3-358-258-01	SLIDER (REW)					

7-5. MECHANISM DECK BLOCK (2)

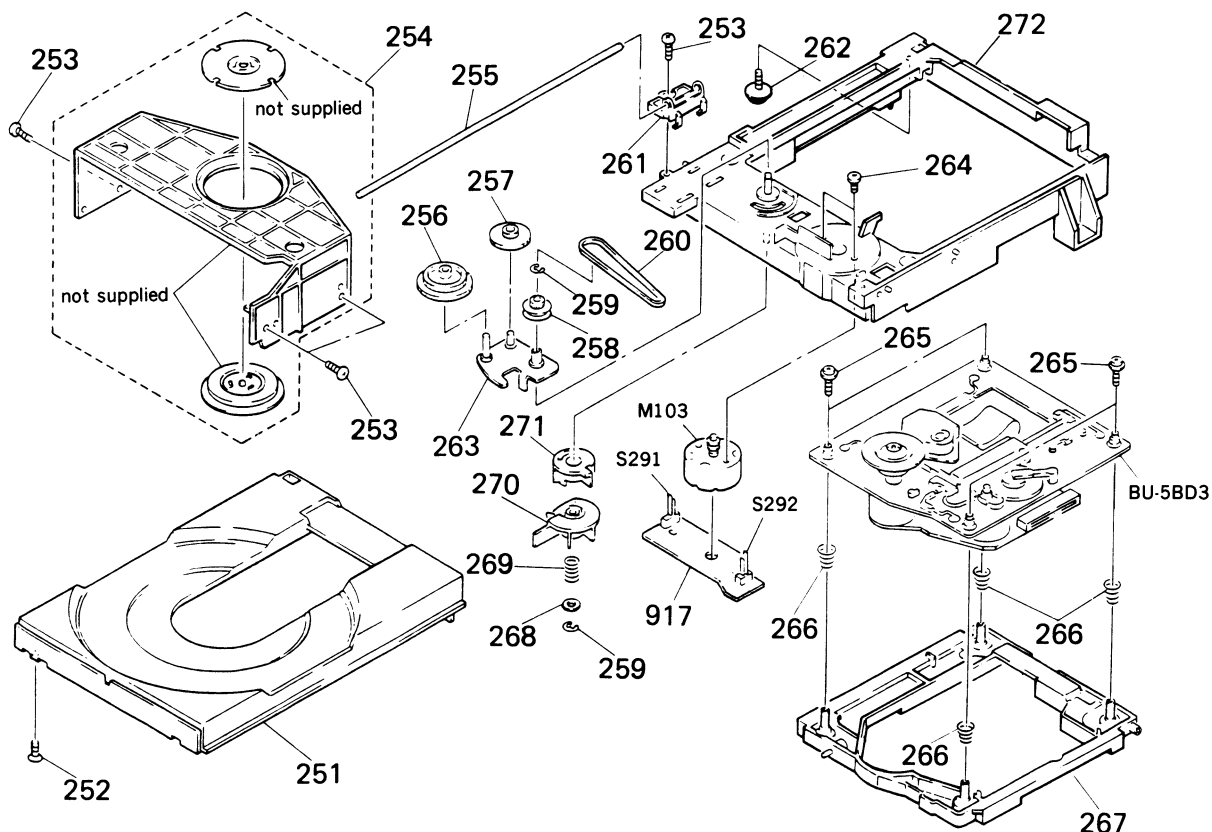
(TCM-180VA-N2: DECK A)
(TCM-180VB-N2: DECK B)



Ref. No.	Part No.	Description	Remark
201	3-358-288-01	SCREW (T), AZIMUTH	
202	3-358-288-11	SCREW (T), AZIMUTH	
203	7-623-505-01	LUG, 2	
204	3-358-234-01	SPRING (AZIMUTH), COMPRESSION	
205	3-358-286-01	LEVER (MOTOR LEVER)	
206	3-358-285-01	GUIDE, TAPE (DECK A)	
207	3-358-228-01	SPRING, TORSION	
208	3-358-265-01	SLIDER (HEAD PC BOARD A)	
209	* 3-358-215-01	BUSHING (WIRE KIT RETAINER)	
210	X-3358-204-1	LEVER (PINCH LEVER) ASSY	
211	3-578-143-11	PINCH ROLLER	
212	3-358-248-01	GEAR (SUPPLY REEL)	
213	3-358-208-01	SPRING (SUPPLY), COMPRESSION	
214	X-3358-203-1	TABLE (T) ASSY, REEL	

Ref. No.	Part No.	Description	Remark
215	* 3-358-284-01	GEAR (TU GEAR)	
216	* 3-358-252-01	LEVER (TU ARM)	
217	* 3-358-255-01	LEVER (GB LEVER) (DECK B)	
218	* 3-358-224-01	GEAR (FF GEAR)	
219	3-358-207-01	SPRING (FF GEAR), COMPRESSION	
220	3-358-227-01	SPRING, LEAF	
221	3-358-243-01	SPRING (TU-SHUT), TORSION	
222	* 3-358-253-01	LEVER (SHUT-OFF LEVER)	
223	* X-3358-215-1	CHASSIS (B) ASSY	
HE1	1-543-673-11	HEAD, MAGNETIC (ERASE)	
HP1	1-543-319-11	HEAD, MAGNETIC (REC/PB)	
HRP1	1-543-319-11	HEAD, MAGNETIC (REC/PB)	

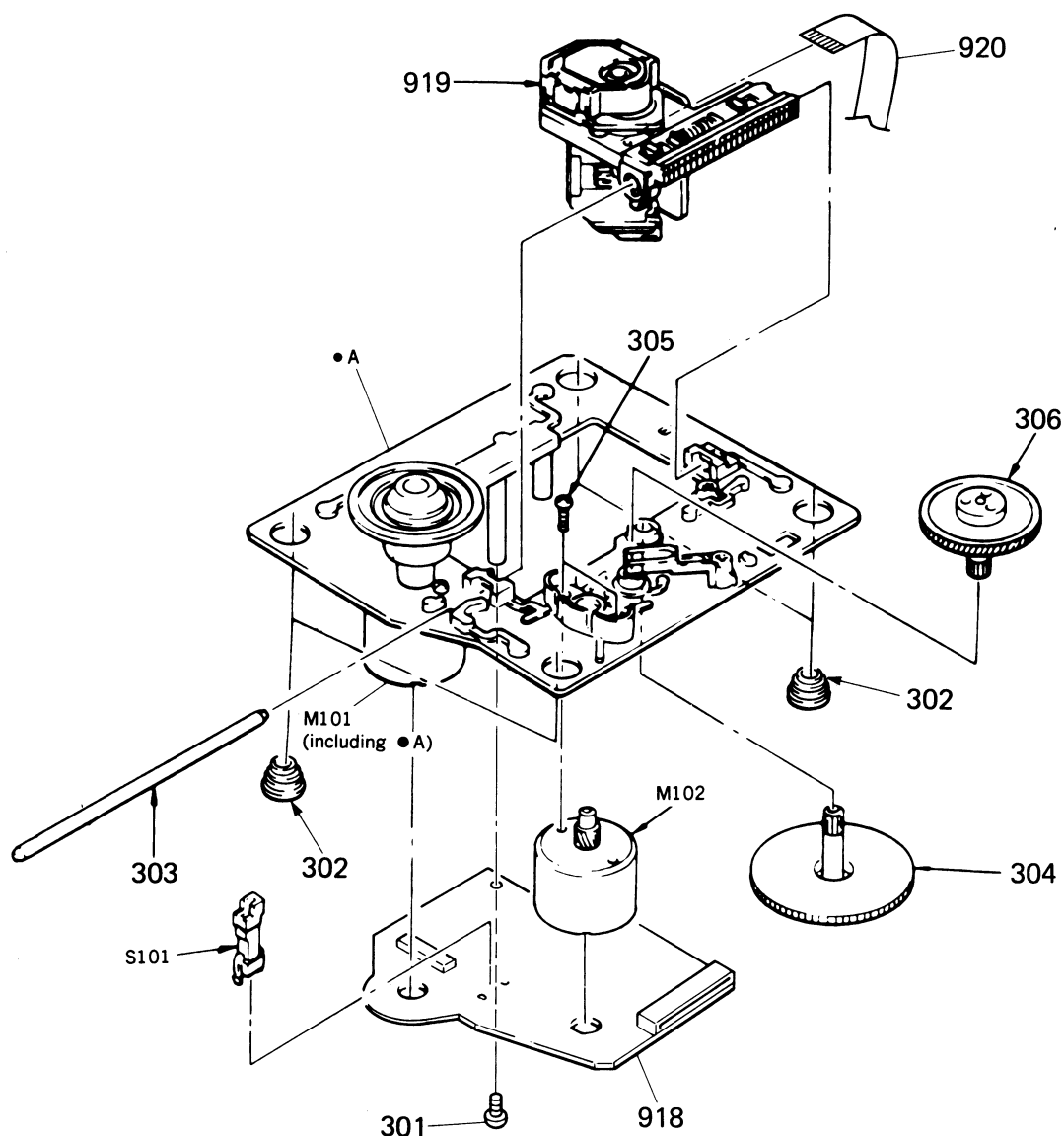
7-6. CD BLOCK (1)
(CDM13A-5BD3)



Ref. No.	Part No.	Description	Remark
251	4-929-732-01	TABLE, DISK	
252	7-685-234-19	SCREW +KTP 2.6x8 TYPE 2 NON-SLIT	
253	7-685-646-79	SCREW +BVTP 3x8 TYPE 2 N-S	
254	A-4604-219-A	HOLDER (MG) ASSY	
255	4-929-764-01	SHAFT (TABLE GUIDE)	
256	4-927-620-01	GEAR (P)	
257	4-927-628-01	GEAR (C)	
258	4-929-724-01	PULLEY (B)	
259	7-624-105-04	STOP RING 2.3, TYPE-E	
260	4-927-649-01	BELT	
261	4-929-723-01	GUIDE (T)	
262	* 4-917-583-21	BRACKET, YOKE	
263	X-4929-703-1	ARM ASSY, SWING	

Ref. No.	Part No.	Description	Remark
264	7-621-775-10	SCREW +B 2.6X4	
265	4-933-134-01	SCREW (+PTPHW M2.6X6)	
266	4-917-541-01	SPRING (B)	
267	4-929-747-01	HOLDER (BU)	
268	4-927-654-01	WASHER (LIMITER)	
269	3-659-338-00	SPRING, COMPRESSION	
270	4-929-729-01	CAM (B)	
271	4-929-727-01	CAM (A)	
272	X-4929-709-2	CHASSIS (MD) ASSY	
917	* 1-634-461-11	LOADING BOARD	
M103	A-4608-362-A	MOTOR (L) ASSY (LOADING)	
S291	1-571-924-11	SWITCH, LEAF (LOAD OUT)	
S292	1-571-924-11	SWITCH, LEAF (LOAD IN)	

7-7. CD BLOCK (2)
(BU-5BD3)



Note:
The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque \triangle sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
301	7-685-134-19	SCREW +BTP 2.6X8 TYPE2 N-S	
302	4-933-126-01	INSULATOR (A)	
303	4-917-565-01	SHAFT, SLED	
304	4-917-564-01	GEAR (P), FLATNESS	
305	7-621-255-15	SCREW +P 2X3	
306	4-917-567-01	GEAR (M)	

Ref. No.	Part No.	Description	Remark
918	* A-4617-371-A	BD BOARD	
919	\triangle 8-848-144-11	DEVICE, OPTICAL KSS-240A	
920	1-575-001-11	WIRE, FLAT TYPE (12 CORE)	
M101	X-4917-523-3	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
S101	1-572-085-11	SWITCH, LEAF (LIMIT IN)	

SECTION 8 ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- CAPACITORS
uF: μ F

- RESISTORS
All resistors are in ohms
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F: nonflammable
- COILS
uH: μ H
- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA...: μ PA...,
uPB...: μ PB..., uPC...: μ PC...,
uPD...: μ PD...
- G : Germany model
IT : Italian model
EE : East European model
EA : Saudi Arabia model
AUS: Australian model

The components identified by mark Δ or dotted line with mark Δ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	* A-4617-371-A	BD BOARD					

		< CAPACITOR >				< CONNECTOR >	
C101	1-163-038-00	CERAMIC CHIP 0.1uF	25V	CN101	* 1-568-796-11	SOCKET, CONNECTOR 22P	
C102	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V	CN102	* 1-568-795-11	SOCKET, CONNECTOR 12P	
C103	1-126-094-11	ELECT 4.7uF	20% 16V			< IC >	
C104	1-163-038-00	CERAMIC CHIP 0.1uF	25V	IC101	8-752-037-33	IC CXA1372Q	
C105	1-126-154-11	ELECT 47uF	20% 6.3V	IC102	8-759-821-94	IC LA6532M	
						< JUMPER RESISTOR >	
C106	1-126-154-11	ELECT 47uF	20% 6.3V	J101	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C107	1-126-154-11	ELECT 47uF	20% 6.3V	J102	1-216-295-00	METAL GLAZE 0 5% 1/10W	
C108	1-163-038-00	CERAMIC CHIP 0.1uF	25V			< TRANSISTOR >	
C109	1-163-038-00	CERAMIC CHIP 0.1uF	25V	Q101	8-729-901-01	TRANSISTOR DTC144EK	
C110	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V			< RESISTOR >	
C111	1-131-367-00	TANTALUM 22uF	20% 16V	R101	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
C112	1-164-232-11	CERAMIC CHIP 0.01uF	10% 50V	R102	1-216-097-00	METAL GLAZE 100K 5% 1/10W	
C113	1-164-232-11	CERAMIC CHIP 0.01uF	10% 50V	R103	1-216-091-00	METAL GLAZE 56 5% 1/10W	
C114	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 50V	R104	1-216-099-00	METAL GLAZE 120K 5% 1/10W	
C115	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 50V	R105	1-216-069-00	METAL GLAZE 6.8K 5% 1/10W	
				R106	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
C117	1-163-038-00	CERAMIC CHIP 0.1uF	25V	R107	1-216-114-00	METAL GLAZE 510K 5% 1/10W	
C118	1-163-038-00	CERAMIC CHIP 0.1uF	25V	R108	1-216-105-00	METAL GLAZE 220K 5% 1/10W	
C119	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 50V	R109	1-216-061-00	METAL GLAZE 3.3K 5% 1/10W	
C120	1-163-989-11	CERAMIC CHIP 0.033uF	10% 25V	R110	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
C151	1-163-019-00	CERAMIC CHIP 0.0068uF	10% 50V				
C152	1-163-038-00	CERAMIC CHIP 0.1uF	25V	R111	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
C153	1-163-006-11	CERAMIC CHIP 560PF	10% 50V	R112	1-216-083-00	METAL GLAZE 27K 5% 1/10W	
C154	1-164-161-11	CERAMIC CHIP 0.0022uF	10% 50V	R113	1-216-071-00	METAL GLAZE 8.2K 5% 1/10W	
C155	1-163-023-00	CERAMIC CHIP 0.015uF	10% 50V	R114	1-216-105-00	METAL GLAZE 220K 5% 1/10W	
C171	1-163-038-00	CERAMIC CHIP 0.1uF	25V	R152	1-216-073-00	METAL GLAZE 10K 5% 1/10W	
C172	1-163-038-00	CERAMIC CHIP 0.1uF	25V				
C173	1-163-038-00	CERAMIC CHIP 0.1uF	25V				
C174	1-163-038-00	CERAMIC CHIP 0.1uF	25V				

Ref. No.	Part No.	Description	Remark
R153	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R154	1-216-085-00	METAL GLAZE 33K 5% 1/10W	
R155	1-216-093-00	METAL GLAZE 68K 5% 1/10W	
R156	1-216-081-00	METAL GLAZE 22K 5% 1/10W	
R157	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
R158	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
R159	1-216-079-00	METAL GLAZE 18K 5% 1/10W	
R160	1-216-049-00	METAL GLAZE 1K 5% 1/10W	
R171	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R172	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R173	1-216-001-00	METAL GLAZE 10 5% 1/10W	
R174	1-216-001-00	METAL GLAZE 10 5% 1/10W	

< VARIABLE RESISTOR >

RV101	1-238-016-11	RES. ADJ. CARBON 10K	
RV102	1-238-016-11	RES. ADJ. CARBON 10K	

< SWITCH >

S101	1-572-085-11	SWITCH, LEAF (LIMIT IN)	
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- * A-4341-551-A DISPLAY BOARD, COMPLETE (E, EA, AUS)
- * A-4345-097-A DISPLAY BOARD, COMPLETE (AEP)
- * A-4345-102-A DISPLAY BOARD, COMPLETE (US, Canadian)
- * A-4345-107-A DISPLAY BOARD, COMPLETE (G)
- * A-4345-109-A DISPLAY BOARD, COMPLETE (EE)
- * A-4345-110-A DISPLAY BOARD, COMPLETE (IT)
- * 1-634-852-11 SW BOARD
- * 1-634-853-11 TRANSFORMER BOARD
- * 1-634-854-11 VR BOARD
- * 1-634-856-11 REC LED BOARD
- * 1-634-857-11 JACK BOARD

- * 1-533-213-31 HOLDER, FUSE
- * 4-932-810-11 CUSHION (FL)

< CAPACITOR >

C401	1-162-282-31	CERAMIC 100PF 10% 50V (EXCEPT G, IT)	
C401	1-162-294-31	CERAMIC 0.001uF 10% 50V (G, IT)	
C402	1-162-282-31	CERAMIC 100PF 10% 50V	
C403	1-162-290-31	CERAMIC 470PF 10% 50V (EXCEPT G, IT)	
C410	1-126-157-11	ELECT 10uF 20% 16V	
C416	1-124-463-00	ELECT 0.1uF 20% 50V	
C417	1-126-157-11	ELECT 10uF 20% 16V	
C418	1-126-157-11	ELECT 10uF 20% 16V	
C419	1-126-157-11	ELECT 10uF 20% 16V	
C420	1-126-157-11	ELECT 10uF 20% 16V	

Ref. No.	Part No.	Description	Remark
C421	1-126-157-11	ELECT 10uF 20% 16V	
C422	1-126-157-11	ELECT 10uF 20% 16V	
C423	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C451	1-162-282-31	CERAMIC 100PF 10% 50V (EXCEPT G, IT)	
C451	1-162-294-31	CERAMIC 0.001uF 10% 50V (G, IT)	
C452	1-162-282-31	CERAMIC 100PF 10% 50V	
C453	1-162-290-31	CERAMIC 470PF 10% 50V (EXCEPT G, IT)	
C460	1-126-157-11	ELECT 10uF 20% 16V	
C471	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C472	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C473	1-162-282-31	CERAMIC 100PF 10% 50V	
C474	1-162-215-31	CERAMIC 47PF 5% 50V	
C475	1-164-159-11	CERAMIC 0.1uF 50V	
C491	1-164-159-11	CERAMIC 0.1uF 50V	
C492	1-164-159-11	CERAMIC 0.1uF 50V	
C493	1-164-159-11	CERAMIC 0.1uF 50V	
C494	1-164-159-11	CERAMIC 0.1uF 50V	
C501	1-162-282-31	CERAMIC 100PF 10% 50V	
C502	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C504	1-162-289-31	CERAMIC 390PF 10% 50V	
C505	1-161-329-00	CERAMIC 0.0068uF 30% 16V	
C506	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C507	1-161-494-00	CERAMIC 0.022uF 25V	
C508	1-161-327-00	CERAMIC 0.0033uF 30% 16V	
C509	1-164-159-11	CERAMIC 0.1uF 50V	
C510	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C511	1-124-464-11	ELECT 0.22uF 20% 50V	
C512	1-161-494-00	CERAMIC 0.022uF 25V	
C513	1-126-160-11	ELECT 1uF 20% 50V	
C514	1-136-163-00	FILM 0.068uF 5% 50V	
C515	1-136-163-00	FILM 0.068uF 5% 50V	
C521	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C522	1-164-159-11	CERAMIC 0.1uF 50V	
C523	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C524	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C551	1-162-282-31	CERAMIC 100PF 10% 50V	
C552	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C554	1-162-289-31	CERAMIC 390PF 10% 50V	
C555	1-161-329-00	CERAMIC 0.0068uF 30% 16V	
C556	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C557	1-161-494-00	CERAMIC 0.022uF 25V	
C558	1-161-327-00	CERAMIC 0.0033uF 30% 16V	
C559	1-164-159-11	CERAMIC 0.1uF 50V	
C560	1-161-379-00	CERAMIC 0.01uF 20% 25V	

DISPLAY, JACK, REC LED, SW, TRANSFORMER, VR

Ref. No.	Part No.	Description	Remark
C561	1-124-464-11	ELECT	0.22uF 20% 50V
C562	1-161-494-00	CERAMIC	0.022uF 25V
C563	1-126-160-11	ELECT	1uF 20% 50V
C564	1-136-163-00	FILM	0.068uF 5% 50V
C565	1-136-163-00	FILM	0.068uF 5% 50V
C566	1-161-379-00	CERAMIC	0.01uF 20% 25V
C567	1-161-379-00	CERAMIC	0.01uF 20% 25V
C568	1-126-157-11	ELECT	10uF 20% 16V
C569	1-126-160-11	ELECT	1uF 20% 50V
C571	1-124-584-00	ELECT	100uF 20% 10V
C572	1-124-584-00	ELECT	100uF 20% 10V
C573	1-126-160-11	ELECT	1uF 20% 50V
C574	1-126-160-11	ELECT	1uF 20% 50V
C578	1-164-159-11	CERAMIC	0.1uF 50V
C579	1-136-173-00	FILM	0.47uF 5% 50V
C580	1-136-173-00	FILM	0.47uF 5% 50V
C581	1-136-173-00	FILM	0.47uF 5% 50V
C582	1-164-159-11	CERAMIC	0.1uF 50V
C583	1-162-282-31	CERAMIC	100PF 10% 50V
C584	1-162-282-31	CERAMIC	100PF 10% 50V
C585	1-161-379-00	CERAMIC	0.01uF 20% 25V
C586	1-161-379-00	CERAMIC	0.01uF 20% 25V
C587	1-162-282-31	CERAMIC	100PF 10% 50V
C588	1-161-379-00	CERAMIC	0.01uF 20% 25V
C589	1-161-379-00	CERAMIC	0.01uF 20% 25V
C590	1-161-379-00	CERAMIC	0.01uF 20% 25V
C592	1-162-197-31	CERAMIC	6.8PF 10% 50V
C593	1-162-197-31	CERAMIC	6.8PF 10% 50V
C594	1-162-199-31	CERAMIC	10PF 5% 50V
C595	1-162-199-31	CERAMIC	10PF 5% 50V
C596	1-125-447-11	DOUBLE LAYERS	1F 5.5V
C597	1-126-157-11	ELECT	10uF 20% 16V
C901	1-164-159-11	CERAMIC	0.1uF 50V
C902	1-164-159-11	CERAMIC	0.1uF 50V
C903	1-126-160-11	ELECT	1uF 20% 50V
C905	△ 1-124-122-11	ELECT	100uF 20% 50V
C906	△ 1-124-556-11	ELECT	2200uF 20% 16V
C907	1-124-572-11	ELECT	100uF 20% 63V
C909	1-126-163-11	ELECT	4.7uF 20% 50V
C911	1-126-163-11	ELECT	4.7uF 20% 50V
C912	1-126-157-11	ELECT	10uF 20% 16V
C913	△ 1-126-163-11	ELECT	4.7uF 20% 50V
C915	1-126-163-11	ELECT	4.7uF 20% 50V
C916	1-126-163-11	ELECT	4.7uF 20% 50V
C917	1-126-163-11	ELECT	4.7uF 20% 50V
C920	1-164-159-11	CERAMIC	0.1uF 50V
C921	1-164-159-11	CERAMIC	0.1uF 50V
C922	△ 1-126-163-11	ELECT	4.7uF 20% 50V
C1024	1-162-290-31	CERAMIC	470PF 10% 50V (G. IT)

Ref. No.	Part No.	Description	Remark
C1025	1-162-290-31	CERAMIC	470PF 10% 50V (G. IT)
C1026	1-164-159-11	CERAMIC	0.1uF 50V (G. IT)
C1027	1-164-159-11	CERAMIC	0.1uF 50V (G. IT)
C1028	1-162-282-31	CERAMIC	100PF 10% 50V (G. IT)
C1029	1-162-282-31	CERAMIC	100PF 10% 50V (G. IT)
C1030	1-164-159-11	CERAMIC	0.1uF 50V (G. IT)
C1031	1-161-379-00	CERAMIC	0.01uF 20% 25V (G. IT)
C1032	1-162-282-31	CERAMIC	100PF 10% 50V (G. IT)
C1033	1-162-294-31	CERAMIC	0.001uF 10% 50V (G. IT)
C1034	1-162-294-31	CERAMIC	0.001uF 10% 50V (G. IT)
C1035	1-161-379-00	CERAMIC	0.01uF 20% 25V (G. IT)
C1036	1-164-159-11	CERAMIC	0.1uF 50V (G. IT)
C2002	1-161-379-00	CERAMIC	0.01uF 20% 25V (G. IT)

< CONNECTOR >

CN203	* 1-569-156-11	SOCKET, CONNECTOR 10P
CN401	* 1-569-418-11	PIN, CONNECTOR 13P
CN402	* 1-568-856-11	SOCKET, CONNECTOR 13P
CN403	* 1-568-827-11	SOCKET, CONNECTOR 8P
CN404	* 1-564-720-11	PIN, CONNECTOR (SMALL TYPE) 4P
CN451	* 1-568-851-11	SOCKET, CONNECTOR 8P
CN501	* 1-569-156-11	SOCKET, CONNECTOR 10P
CN502	* 1-569-156-11	SOCKET, CONNECTOR 10P
CN503	* 1-509-931-11	SOCKET, CONNECTOR

CN901	△ 1-526-930-11	INLET, AC (AC IN) (US, Canadian, E)
CN901	△ 1-526-931-11	INLET, AC (AC IN) (EA, AUS, H55, H1100)

CN902	* 1-568-858-11	SOCKET, CONNECTOR 15P
CN903	* 1-565-484-11	CONNECTOR, BOARD TO BOARD 8P

< COMPOSITION CIRCUIT BLOCK >

CP503	* 1-233-216-11	COMPOSITION CIRCUIT BLOCK
CP504	* 1-233-216-11	COMPOSITION CIRCUIT BLOCK

< DIODE >

D206	8-719-984-16	LED GL-1HY112-CD (STOP)
D207	8-719-984-17	LED GL-1EG112-CD (PLAY)
D208	8-719-912-20	DIODE 1SS120
D209	8-719-912-20	DIODE 1SS120
D210	8-719-912-20	DIODE 1SS120
D211	8-719-912-20	DIODE 1SS120
D300	8-719-900-19	DIODE SLR-34UW5
D406	8-719-912-20	DIODE 1SS120
D521	8-719-313-38	LED SEL1210RM-LC05-CD (STANDBY)
D522	8-719-313-39	LED SEL1910DM-LC05-CD (DBFB)
D523	8-719-313-39	LED SEL1910DM-LC05-CD (S-SUR)
D571	8-719-912-20	DIODE 1SS120
D572	8-719-912-20	DIODE 1SS120
D574	8-719-912-20	DIODE 1SS120

Note:
The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

DISPLAY, JACK, REC LED, SW, TRANSFORMER, VR

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D576	8-719-912-20	DIODE 1SS120				< JACK >	
D577	8-719-912-20	DIODE 1SS120		J401	1-562-837-21	JACK (MIX MIC)	
D578	8-719-912-20	DIODE 1SS120		J451	1-562-837-21	JACK (HEADPHONES)	
D579	8-719-912-20	DIODE 1SS120				< TRANSISTOR >	
D580	8-719-912-20	DIODE 1SS120		Q406	8-729-904-39	TRANSISTOR DTC114TS	
D581	8-719-912-20	DIODE 1SS120		Q407	8-729-904-39	TRANSISTOR DTC114TS	
D582	8-719-912-20	DIODE 1SS120		Q456	8-729-904-39	TRANSISTOR DTC114TS	
D583	8-719-912-20	DIODE 1SS120		Q457	8-729-904-39	TRANSISTOR DTC114TS	
D584	8-719-912-20	DIODE 1SS120		Q501	8-729-904-39	TRANSISTOR DTC114TS	
D585	8-719-912-20	DIODE 1SS120 (H50)		Q551	8-729-904-39	TRANSISTOR DTC114TS	
D588	8-719-912-20	DIODE 1SS120 (AEP, G, E, EA, AUS)		Q572	8-729-900-61	TRANSISTOR DTA114ES	
D589	8-719-912-20	DIODE 1SS120 (IT, EE)		Q573	8-729-224-61	TRANSISTOR 2SK246-Y	
D590	8-719-912-20	DIODE 1SS120 (EE, E, EA, AUS)		Q574	8-729-900-80	TRANSISTOR DTC114ES	
D598	8-719-933-54	DIODE HZS9A2L		Q575	8-729-900-80	TRANSISTOR DTC114ES	
D901	△ 8-719-912-20	DIODE 1SS120		Q576	8-729-620-05	TRANSISTOR 2SC2603-EF	
D902	△ 8-719-912-20	DIODE 1SS120		Q901	8-729-620-05	TRANSISTOR 2SC2603-EF	
D903	△ 8-719-200-82	DIODE 11ES2		Q903	△ 8-729-924-90	TRANSISTOR 2SB1370-EF	
D904	△ 8-719-200-82	DIODE 11ES2		Q904	△ 8-729-924-90	TRANSISTOR 2SB1370-EF	
D907	△ 8-719-200-82	DIODE 11ES2		Q905	△ 8-729-920-98	TRANSISTOR 2SD1761-EF	
D908	8-719-200-82	DIODE 11ES2		Q906	△ 8-729-920-98	TRANSISTOR 2SD1761-EF	
D909	△ 8-719-312-09	DIODE RBA-402		Q907	8-729-900-80	TRANSISTOR DTC114ES	
D910	8-719-002-33	DIODE UZL-24L		Q908	8-729-900-80	TRANSISTOR DTC114ES	
D911	8-719-014-64	DIODE UZP-5, 18C				< RESISTOR >	
D912	8-719-933-40	DIODE HZS6C2L		R222	1-249-405-11	CARBON 100 5% 1/4W	
		< FUSE >		R401	1-249-417-11	CARBON 1K 5% 1/4W	
F999	△ 1-532-783-21	FUSE, MICRO (SECONDARY) (5A/125V) (H50)		R402	1-249-441-11	CARBON 100K 5% 1/4W	
		< INDUCTOR >		R403	1-249-441-11	CARBON 100K 5% 1/4W	
FB901	△* 1-410-858-11	INDUCTOR (G, IT)		R404	1-249-425-11	CARBON 4.7K 5% 1/4W	
FB902	△* 1-410-858-11	INDUCTOR (G, IT)		R405	1-249-401-11	CARBON 47 5% 1/4W	
		< FLUORESCENT INDICATOR TUBE >		R406	1-249-429-11	CARBON 10K 5% 1/4W	
FLT501	1-519-577-11	INDICATOR TUBE, FLUORESCENT		R416	1-249-425-11	CARBON 4.7K 5% 1/4W	
		< IC >		R417	1-249-425-11	CARBON 4.7K 5% 1/4W	
IC401	8-759-634-50	IC M5218AL		R418	1-249-425-11	CARBON 4.7K 5% 1/4W	
IC406	8-759-820-62	IC LB1639		R419	1-249-417-11	CARBON 1K 5% 1/4W	
IC451	8-759-634-50	IC M5218AL		R426	1-249-417-11	CARBON 1K 5% 1/4W	
IC501	8-759-630-99	IC M5226FP		R427	1-249-441-11	CARBON 100K 5% 1/4W	
IC502	8-759-634-50	IC M5218AL		R428	1-247-903-00	CARBON 1M 5% 1/4W	
IC505	8-759-153-84	IC uPD75212ACW-273		R429	1-249-417-11	CARBON 1K 5% 1/4W	
IC506	8-749-922-36	IC GP1U50XB		R430	1-249-425-11	CARBON 4.7K 5% 1/4W	
IC551	8-759-630-99	IC M5226FP		R431	1-249-425-11	CARBON 4.7K 5% 1/4W	
IC901	8-759-602-66	IC M5230L-A		R432	1-249-429-11	CARBON 10K 5% 1/4W	
				R451	1-249-417-11	CARBON 1K 5% 1/4W	
				R452	1-249-441-11	CARBON 100K 5% 1/4W	

Note:
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Note:
Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



DISPLAY, JACK, REC LED, SW, TRANSFORMER, VR


Ref. No.	Part No.	Description		Remark
R453	1-249-441-11	CARBON	100K 5%	1/4W
R454	1-249-425-11	CARBON	4.7K 5%	1/4W
R455	1-249-401-11	CARBON	47 5%	1/4W
R456	1-249-429-11	CARBON	10K 5%	1/4W
R457	1-249-429-11	CARBON	10K 5%	1/4W
R466	1-249-425-11	CARBON	4.7K 5%	1/4W
R467	1-249-425-11	CARBON	4.7K 5%	1/4W
R468	1-249-425-11	CARBON	4.7K 5%	1/4W
R469	1-249-417-11	CARBON	1K 5%	1/4W
R471	1-249-429-11	CARBON	10K 5%	1/4W
R472	1-249-411-11	CARBON	330 5%	1/4W
R473	1-249-441-11	CARBON	100K 5%	1/4W
R474	1-249-411-11	CARBON	330 5%	1/4W
R475	1-249-441-11	CARBON	100K 5%	1/4W
R486	1-249-413-11	CARBON	470 5%	1/4W
R487	1-249-429-11	CARBON	10K 5%	1/4W
R500	1-249-414-11	CARBON	560 5%	1/4W (H50)
R501	1-247-903-00	CARBON	1M 5%	1/4W
R502	1-249-425-11	CARBON	4.7K 5%	1/4W
R503	1-249-411-11	CARBON	330 5%	1/4W
R504	1-247-903-00	CARBON	1M 5%	1/4W
R505	1-249-419-11	CARBON	1.5K 5%	1/4W
R506	1-249-434-11	CARBON	27K 5%	1/4W
R507	1-247-903-00	CARBON	1M 5%	1/4W
R522	1-249-409-11	CARBON	220 5%	1/4W
R523	1-249-409-11	CARBON	220 5%	1/4W
R524	1-249-439-11	CARBON	68K 5%	1/4W
R525	1-249-417-11	CARBON	1K 5%	1/4W
R526	1-249-405-11	CARBON	100 5%	1/4W
R527	1-249-405-11	CARBON	100 5%	1/4W
R528	1-249-405-11	CARBON	100 5%	1/4W
R529	1-249-405-11	CARBON	100 5%	1/4W
R530	1-249-405-11	CARBON	100 5%	1/4W
R531	1-249-405-11	CARBON	100 5%	1/4W
R534	1-249-405-11	CARBON	100 5%	1/4W
R535	1-249-405-11	CARBON	100 5%	1/4W
R536	1-249-405-11	CARBON	100 5%	1/4W
R537	1-249-429-11	CARBON	10K 5%	1/4W
R550	1-249-414-11	CARBON	560 5%	1/4W (H50)
R551	1-247-903-00	CARBON	1M 5%	1/4W
R552	1-249-425-11	CARBON	4.7K 5%	1/4W
R553	1-249-411-11	CARBON	330 5%	1/4W
R554	1-247-903-00	CARBON	1M 5%	1/4W
R555	1-249-419-11	CARBON	1.5K 5%	1/4W
R556	1-249-434-11	CARBON	27K 5%	1/4W
R557	1-247-903-00	CARBON	1M 5%	1/4W
R564	1-247-887-00	CARBON	220K 5%	1/4W
R568	1-249-441-11	CARBON	100K 5%	1/4W
R569	1-249-429-11	CARBON	10K 5%	1/4W

Ref. No.	Part No.	Description		Remark
R570	1-249-417-11	CARBON	1K 5%	1/4W
R571	1-249-441-11	CARBON	100K 5%	1/4W
R572	1-247-891-00	CARBON	330K 5%	1/4W
R573	1-249-425-11	CARBON	4.7K 5%	1/4W
R574	1-249-441-11	CARBON	100K 5%	1/4W
R577	1-249-405-11	CARBON	100 5%	1/4W
R582	1-249-429-11	CARBON	10K 5%	1/4W
R596	1-249-429-11	CARBON	10K 5%	1/4W
R598	1-249-413-11	CARBON	470 5%	1/4W
R599	1-249-429-11	CARBON	10K 5%	1/4W
R901	1-249-419-11	CARBON	1.5K 5%	1/4W
R902	1-249-429-11	CARBON	10K 5%	1/4W
R903	1-249-421-11	CARBON	2.2K 5%	1/4W
R904	1-249-433-11	CARBON	22K 5%	1/4W
R905	△ · 1-212-934-00	FUSIBLE	1 5% 1/2W F	(EXCEPT US, Canadian)
R905	△ · 1-212-952-00	FUSIBLE	5.6 5% 1/2W F	(US, Canadian)
R906	△ · 1-212-934-00	FUSIBLE	1 5% 1/2W F	
R907	△ · 1-212-934-00	FUSIBLE	1 5% 1/2W F	(EXCEPT US, Canadian)
R907	△ · 1-212-952-00	FUSIBLE	5.6 5% 1/2W F	(US, Canadian)
R908	1-249-425-11	CARBON	4.7K 5%	1/4W
R909	1-249-433-11	CARBON	22K 5%	1/4W
R910	1-247-903-00	CARBON	1M 5%	1/4W
R911	1-249-405-11	CARBON	100 5%	1/4W
R912	1-249-432-11	CARBON	18K 5%	1/4W
R913	1-249-432-11	CARBON	18K 5%	1/4W
R914	1-247-842-11	CARBON	3K 5%	1/4W
R915	1-249-429-11	CARBON	10K 5%	1/4W
R917	1-249-413-11	CARBON	470 5%	1/4W
R926	1-202-725-00	SOLID	3.3M 10% 1/2W	(US, Canadian)
R2001	1-247-891-00	CARBON	330K 5%	1/4W

< VARIABLE RESISTOR >

RV406	1-238-865-11	RES. VAR. CARBON (MOTOR) 100KX2	
		(INCLUDING VOL LED)	
RV501	1-238-457-11	RES. VAR. CARBON 250K/250K (12kHz) (H50)	
RV501	1-238-867-11	RES. VAR. SLIDE 250K (12kHz) (H55, H1100)	
RV502	1-238-457-11	RES. VAR. CARBON 250K/250K (4kHz) (H50)	
RV502	1-238-867-11	RES. VAR. SLIDE 250K (4kHz) (H55, H1100)	
RV503	1-238-457-11	RES. VAR. CARBON 250K/250K (1kHz) (H50)	
RV503	1-238-867-11	RES. VAR. SLIDE 250K (1kHz) (H55, H1100)	
RV504	1-238-457-11	RES. VAR. CARBON 250K/250K (400Hz) (H50)	
RV504	1-238-867-11	RES. VAR. SLIDE 250K (400Hz) (H55, H1100)	
RV505	1-238-457-11	RES. VAR. CARBON 250K/250K (100Hz) (H50)	
RV505	1-238-867-11	RES. VAR. SLIDE 250K (100Hz) (H55, H1100)	

Note:
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Note:
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

DISPLAY, JACK, REC LED, SW, TRANSFORMER, VR

DOLBY

LOADING

MAIN, POWER, CHAMICAL CONDENSOR

Ref. No.	Part No.	Description	Remark
RV551	1-238-457-11	RES. VAR. CARBON 250K/250K (12kHz) (H50)	
RV551	1-238-867-11	RES. VAR. SLIDE 250K (12kHz) (H55, H1100)	
RV552	1-238-457-11	RES. VAR. CARBON 250K/250K (4kHz) (H50)	
RV552	1-238-867-11	RES. VAR. SLIDE 250K (4kHz) (H55, H1100)	
RV553	1-238-457-11	RES. VAR. CARBON 250K/250K (1kHz) (H50)	
RV553	1-238-867-11	RES. VAR. SLIDE 250K (1kHz) (H55, H1100)	
RV554	1-238-457-11	RES. VAR. CARBON 250K/250K (400Hz) (H50)	
RV554	1-238-867-11	RES. VAR. SLIDE 250K (400Hz) (H55, H1100)	
RV555	1-238-457-11	RES. VAR. CARBON 250K/250K (100Hz) (H50)	
RV555	1-238-867-11	RES. VAR. SLIDE 250K (100Hz) (H55, H1100)	

< SWITCH >

S201	1-572-184-11	SWITCH. KEYBOARD (EDIT)	
S202	1-572-184-11	SWITCH. KEYBOARD (■)	
S203	1-572-184-11	SWITCH. KEYBOARD (▷◁)	
S204	1-572-184-11	SWITCH. KEYBOARD (△OPEN/CLOSE)	
S205	1-572-184-11	SWITCH. KEYBOARD (▷◁)	
S206	1-572-184-11	SWITCH. KEYBOARD (◁◁)	
S207	1-572-184-11	SWITCH. KEYBOARD (▷▷)	
S208	1-572-184-11	SWITCH. KEYBOARD (◁◁)	
S209	1-572-184-11	SWITCH. KEYBOARD (REPEAT)	
S210	1-572-184-11	SWITCH. KEYBOARD (CONTINUE)	
S211	1-572-184-11	SWITCH. KEYBOARD (SHUFFLE)	
S212	1-572-184-11	SWITCH. KEYBOARD (PROGRAM)	
S214	1-572-184-11	SWITCH. KEYBOARD (TIME)	
S501	1-572-184-11	SWITCH. KEYBOARD (TIMER CONTROL)	
S502	1-572-184-11	SWITCH. KEYBOARD (SLEEP)	
S503	1-572-184-11	SWITCH. KEYBOARD (TIMER SET)	
S504	1-572-184-11	SWITCH. KEYBOARD (CLOCK SET)	
S505	1-572-184-11	SWITCH. KEYBOARD (CLOCK DISPLAY)	
S506	1-572-184-11	SWITCH. KEYBOARD (POWER)	
S507	1-572-184-11	SWITCH. KEYBOARD (DBFB)	
S508	1-572-184-11	SWITCH. KEYBOARD (S-SUR)	
S509	1-572-184-11	SWITCH. KEYBOARD (TAPE)	
S510	1-572-184-11	SWITCH. KEYBOARD (CD)	
S511	1-572-184-11	SWITCH. KEYBOARD (TUNER)	
S512	1-572-184-11	SWITCH. KEYBOARD (VIDEO/AUX) (H50)	
S512	1-572-184-11	SWITCH. KEYBOARD (PHONO) (H55, H1100)	
S513	1-572-184-11	SWITCH. KEYBOARD (BAND)	
S514	1-572-184-11	SWITCH. KEYBOARD (TUNING -)	
S515	1-572-184-11	SWITCH. KEYBOARD (TUNING +)	
S516	1-572-184-11	SWITCH. KEYBOARD (AUTO)	
S517	1-572-184-11	SWITCH. KEYBOARD (MEMORY)	

Ref. No.	Part No.	Description	Remark
S518	1-572-184-11	SWITCH. KEYBOARD (ENTER)	
S519	1-572-184-11	SWITCH. KEYBOARD (NEXT)	
S520	1-572-184-11	SWITCH. KEYBOARD (SHIFT)	
S521	1-572-184-11	SWITCH. KEYBOARD (PRESET/TIMER -)	
S522	1-572-184-11	SWITCH. KEYBOARD (PRESET/TIMER +)	
S901	△ 1-571-722-11	SWITCH. VOLTAGE SELECTION (VOLTAGE SELECTOR) (E, EA, AUS)	

< CRYSTAL >

X501	1-567-821-21	VIBRATOR. CRYSTAL (4.19MHz)	
X502	1-527-997-21	VIBRATOR. CRYSTAL (32KHz)	

* 1-634-855-11 DOLBY BOARD

< CONNECTOR >

CN350 * 1-564-495-11 PIN. CONNECTOR 2P

< SWITCH >

S350 1-553-977-00 SWITCH. SLIDE (DOLBY NR)

* 1-634-461-11 LOADING BOARD

< CONNECTOR >

CN291 * 1-564-498-11 PIN. CONNECTOR 5P

< SWITCH >

S291 1-571-924-11 SWITCH. LEAF (LOAD OUT)
S292 1-571-924-11 SWITCH. LEAF (LOAD IN)

* A-4345-096-A MAIN BOARD. COMPLETE (AEP)
* A-4345-101-A MAIN BOARD. COMPLETE (US, Canadian)
* A-4345-106-A MAIN BOARD. COMPLETE (G, IT)
* A-4345-108-A MAIN BOARD. COMPLETE (EE)
* A-4345-111-A MAIN BOARD. COMPLETE (E, EA, AUS)
* 1-634-849-11 POWER BOARD
* 1-634-850-11 CHAMICAL CONDENSOR BOARD

* 4-925-530-01 PLATE. GROUND

Note:

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Note:

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MAIN, POWER, CHAMICAL CONDENSOR

Ref. No.	Part No.	Description	Remark
< CAPACITOR >			
C1	1-162-195-31	CERAMIC 4.7PF 10% 50V (AEP, EE, E, EA, AUS)	
C2	1-123-875-11	ELECT 10uF 20% 50V	
C3	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C4	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C5	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C6	1-164-159-11	CERAMIC 0.1uF 50V (E, EA, AUS)	
C7	1-164-159-11	CERAMIC 0.1uF 50V (EXCEPT US, Canadian)	
C8	1-161-379-00	CERAMIC 0.01uF 20% 25V (H55, H1100)	
C9	1-102-120-00	CERAMIC 0.0018uF 10% 50V (H55, H1100)	
C10	1-161-374-11	CERAMIC 0.0015uF 30% 16V (H55, H1100)	
C21	1-161-379-00	CERAMIC 0.01uF 20% 25V (E, EA, AUS)	
C22	1-102-947-00	CERAMIC 10PF 0.5PF 50V (E, EA, AUS)	
C23	1-136-162-00	FILM 0.056uF 5% 50V (E, EA, AUS)	
C24	1-136-161-00	FILM 0.047uF 5% 50V (E, EA, AUS)	
C51	1-164-056-11	CERAMIC 27PF 5% 50V	
C52	1-164-056-11	CERAMIC 27PF 5% 50V	
C53	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C54	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C55	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C56	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C57	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C58	1-123-875-11	ELECT 10uF 20% 50V	
C59	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C60	1-124-477-11	ELECT 47uF 20% 25V	
C61	1-124-925-11	ELECT 2.2uF 20% 100V	
C62	1-136-153-00	FILM 0.01uF 5% 50V	
C63	1-124-463-00	ELECT 0.1uF 20% 50V (H50)	
C64	1-124-902-00	ELECT 0.47uF 20% 50V (H50, H1100)	
C65	1-136-157-00	FILM 0.022uF 5% 50V (H50, H1100)	
C66	1-136-157-00	FILM 0.022uF 5% 50V (H50, H1100)	
C67	1-162-282-31	CERAMIC 100PF 10% 50V	
C81	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C82	1-124-472-11	ELECT 470uF 20% 10V	
C83	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C84	1-123-875-11	ELECT 10uF 20% 50V	
C85	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C86	1-162-282-31	CERAMIC 100PF 10% 50V	
C87	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C88	1-123-875-11	ELECT 10uF 20% 50V	
C89	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C90	1-124-477-11	ELECT 47uF 20% 25V	
C91	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C92	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C93	1-161-375-00	CERAMIC 0.0022uF 20% 50V	
C94	1-161-375-00	CERAMIC 0.0022uF 20% 50V	

Ref. No.	Part No.	Description	Remark
C95	1-124-791-11	ELECT 1uF 20% 50V	
C96	1-124-791-11	ELECT 1uF 20% 50V	
C97	1-124-791-11	ELECT 1uF 20% 50V	
C98	1-124-791-11	ELECT 1uF 20% 50V	
C99	1-136-154-00	FILM 0.012uF 5% 50V (EXCEPT US, Canadian)	
C99	1-136-155-00	FILM 0.015uF 5% 50V (US, Canadian)	
C100	1-136-154-00	FILM 0.012uF 5% 50V (EXCEPT US, Canadian)	
C100	1-136-155-00	FILM 0.015uF 5% 50V (US, Canadian)	
C101	1-123-875-11	ELECT 10uF 20% 50V	
C102	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C103	1-124-463-00	ELECT 0.1uF 20% 50V	
C104	1-124-791-11	ELECT 1uF 20% 50V	
C105	1-124-791-11	ELECT 1uF 20% 50V	
C106	1-124-791-11	ELECT 1uF 20% 50V	
C107	1-162-282-31	CERAMIC 100PF 10% 50V (G, IT)	
C108	1-162-211-31	CERAMIC 33PF 5% 50V (EXCEPT G, IT)	
C108	1-162-291-31	CERAMIC 560PF 10% 50V (G, IT)	
C109	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C110	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C111	1-124-925-11	ELECT 2.2uF 20% 100V	
C112	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C114	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C116	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C117	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C201	1-164-159-11	CERAMIC 0.1uF 50V	
C211	1-136-161-00	FILM 0.047uF 5% 50V	
C212	1-161-374-11	CERAMIC 0.0015uF 20% 50V	
C213	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C214	1-124-465-00	ELECT 0.47uF 20% 50V	
C215	1-164-159-11	CERAMIC 0.1uF 50V	
C221	1-162-207-31	CERAMIC 22PF 5% 50V	
C222	1-162-207-31	CERAMIC 22PF 5% 50V	
C223	1-124-443-00	ELECT 100uF 20% 10V	
C225	1-136-165-00	FILM 0.1uF 5% 50V	
C229	1-123-875-11	ELECT 10uF 20% 50V	
C231	1-161-374-11	CERAMIC 0.0015uF 20% 50V	
C232	1-161-374-11	CERAMIC 0.0015uF 20% 50V	
C233	1-162-286-31	CERAMIC 220PF 10% 50V	
C234	1-162-286-31	CERAMIC 220PF 10% 50V	
C235	1-124-791-11	ELECT 1uF 20% 50V	
C236	1-124-791-11	ELECT 1uF 20% 50V	
C237	1-123-875-11	ELECT 10uF 20% 50V	

MAIN, POWER, CHAMICAL CONDENSOR

Ref. No.	Part No.	Description	Remark
C238	1-123-875-11	ELECT	10uF 20% 50V
C251	1-162-282-31	CERAMIC	100PF 10% 50V
C252	1-162-282-31	CERAMIC	100PF 10% 50V
C253	1-162-282-31	CERAMIC	100PF 10% 50V
C254	1-162-282-31	CERAMIC	100PF 10% 50V
C255	1-162-282-31	CERAMIC	100PF 10% 50V
C256	1-161-379-00	CERAMIC	0.01uF 20% 25V
C257	1-161-379-00	CERAMIC	0.01uF 20% 25V
C258	1-161-379-00	CERAMIC	0.01uF 20% 25V
C601	1-162-293-31	CERAMIC	820PF 10% 50V
C602	1-162-282-31	CERAMIC	100PF 10% 50V
C603	1-136-157-00	FILM	0.022uF 5% 50V
C604	1-126-157-11	ELECT	10uF 20% 16V
C609	1-136-161-00	FILM	0.047uF 5% 50V
C610	1-161-379-00	CERAMIC	0.01uF 20% 25V
C611	1-162-293-31	CERAMIC	820PF 10% 50V
C612	1-162-282-31	CERAMIC	100PF 10% 50V
C613	1-136-157-00	FILM	0.022uF 5% 50V
C614	1-123-875-11	ELECT	10uF 20% 50V
C621	1-162-282-31	CERAMIC	100PF 10% 50V
C622	1-162-282-31	CERAMIC	100PF 10% 50V
C623	1-130-474-00	MYLAR	0.0018uF 5% 50V (H55, H1100)
C624	1-130-480-00	MYLAR	0.0056uF 5% 50V (H55, H1100)
C625	1-123-875-11	ELECT	10uF 20% 50V (H55, H1100)
C626	1-124-791-11	ELECT	1uF 20% 50V
C627	1-162-282-31	CERAMIC	100PF 10% 50V (AEP, EE)
C627	1-162-294-31	CERAMIC	0.001uF 10% 50V (G, IT)
C628	1-161-379-00	CERAMIC	0.01uF 20% 25V (H55, H1100)
C651	1-162-293-31	CERAMIC	820PF 10% 50V
C652	1-162-282-31	CERAMIC	100PF 10% 50V
C653	1-136-157-00	FILM	0.022uF 5% 50V
C654	1-126-157-11	ELECT	10uF 20% 16V
C657	1-162-282-31	CERAMIC	100PF 10% 50V (AEP, EE)
C657	1-162-294-31	CERAMIC	0.001uF 10% 50V (G, IT)
C658	1-161-379-00	CERAMIC	0.01uF 20% 25V (H55, H1100)
C659	1-136-161-00	FILM	0.047uF 5% 50V
C661	1-162-293-31	CERAMIC	820PF 10% 50V
C662	1-162-282-31	CERAMIC	100PF 10% 50V
C663	1-136-157-00	FILM	0.022uF 5% 50V
C664	1-123-875-11	ELECT	10uF 20% 50V
C671	1-162-282-31	CERAMIC	100PF 10% 50V
C672	1-162-282-31	CERAMIC	100PF 10% 50V
C673	1-130-474-00	MYLAR	0.0018uF 5% 50V (H55, H1100)
C674	1-130-480-00	MYLAR	0.0056uF 5% 50V (H55, H1100)
C675	1-123-875-11	ELECT	10uF 20% 50V (H55, H1100)
C676	1-124-791-11	ELECT	1uF 20% 50V
C701	1-162-290-31	CERAMIC	470PF 10% 50V
C702	1-162-290-31	CERAMIC	470PF 10% 50V

Ref. No.	Part No.	Description	Remark
C703	1-124-254-00	ELECT	0.68uF 20% 50V
C704	1-123-875-11	ELECT	10uF 20% 50V
C705	1-126-157-11	ELECT	10uF 20% 16V
C706	1-124-902-00	ELECT	0.47uF 20% 50V
C707	1-124-925-11	ELECT	2.2uF 20% 100V
C709	1-123-875-11	ELECT	10uF 20% 50V
C710	1-162-288-31	CERAMIC	330PF 10% 50V
C711	1-162-282-31	CERAMIC	100PF 10% 50V
C712	1-124-443-00	ELECT	100uF 20% 10V
C713	1-161-379-00	CERAMIC	0.01uF 20% 25V
C714	1-162-294-31	CERAMIC	0.001uF 10% 50V
C721	1-161-374-11	CERAMIC	0.0015uF 20% 50V
C722	1-161-329-00	CERAMIC	0.0068uF 30% 16V
C723	1-124-791-11	ELECT	1uF 20% 50V
C724	1-124-925-11	ELECT	2.2uF 20% 100V
C725	1-136-153-00	FILM	0.01uF 5% 50V (H55, H1100)
C725	1-136-154-00	FILM	0.012uF 5% 50V (H50)
C726	1-130-457-00	MYLAR	0.0022uF 5% 50V (H55, H1100)
C727	1-130-457-00	MYLAR	0.0022uF 5% 50V (H55, H1100)
C728	1-162-286-31	CERAMIC	220PF 10% 50V
C729	1-162-286-31	CERAMIC	220PF 10% 50V
C731	1-124-927-11	ELECT	4.7uF 20% 100V
C735	1-123-875-11	ELECT	10uF 20% 50V
C736	1-161-379-00	CERAMIC	0.01uF 20% 25V
C737	1-124-443-00	ELECT	100uF 20% 10V
C738	1-161-379-00	CERAMIC	0.01uF 20% 25V
C739	1-164-159-11	CERAMIC	0.1uF 50V
C740	1-161-379-00	CERAMIC	0.01uF 20% 25V (EXCEPT US, Canadian)
C740	1-164-159-11	CERAMIC	0.1uF 50V (US, Canadian)
C751	1-162-290-31	CERAMIC	470PF 10% 50V
C752	1-162-290-31	CERAMIC	470PF 10% 50V
C753	1-124-254-00	ELECT	0.68uF 20% 50V
C754	1-123-875-11	ELECT	10uF 20% 50V
C755	1-126-157-11	ELECT	10uF 20% 16V
C756	1-124-902-00	ELECT	0.47uF 20% 50V
C757	1-124-925-11	ELECT	2.2uF 20% 100V
C759	1-123-875-11	ELECT	10uF 20% 50V
C760	1-162-288-31	CERAMIC	330PF 10% 50V
C761	1-162-282-31	CERAMIC	100PF 10% 50V
C764	1-162-294-31	CERAMIC	0.001uF 10% 50V
C795	1-123-875-11	ELECT	10uF 20% 50V
C801	1-123-875-11	ELECT	10uF 20% 50V
C802	1-162-290-31	CERAMIC	470PF 10% 50V (EXCEPT G, IT)
C803	1-126-233-11	ELECT	22uF 20% 50V

MAIN, POWER, CHAMICAL CONDENSOR

Ref. No.	Part No.	Description	Remark
C804	1-164-159-11	CERAMIC	0.1uF 50V (EXCEPT G, IT)
C805	1-164-159-11	CERAMIC	0.1uF 50V (EXCEPT G, IT)
C851	1-123-875-11	ELECT	10uF 20% 50V
C852	1-162-290-31	CERAMIC	470PF 10% 50V (EXCEPT G, IT)
C853	1-126-233-11	ELECT	22uF 20% 50V
C854	1-164-159-11	CERAMIC	0.1uF 50V (EXCEPT G, IT)
C855	1-164-159-11	CERAMIC	0.1uF 50V (EXCEPT G, IT)
C871	△ 1-124-618-11	ELECT	2200uF 20% 35V
C872	△ 1-124-618-11	ELECT	2200uF 20% 35V
C873	1-124-120-11	ELECT	220uF 20% 25V
C874	△ 1-124-484-11	ELECT	220uF 20% 35V
C875	△ 1-123-875-11	ELECT	10uF 20% 50V
C876	1-123-875-11	ELECT	10uF 20% 50V
C877	△ 1-123-875-11	ELECT	10uF 20% 50V
C878	△ 1-124-910-11	ELECT	47uF 20% 50V
C879	△ 1-124-910-11	ELECT	47uF 20% 50V
C880	1-124-910-11	ELECT	47uF 20% 50V
C899	1-164-159-11	CERAMIC	0.1uF 50V
C996	1-124-927-11	ELECT	4.7uF 20% 100V
C997	1-124-791-11	ELECT	1uF 20% 50V
C998	1-126-176-11	ELECT	220uF 20% 10V
C999	1-123-875-11	ELECT	10uF 20% 50V
C1001	1-162-282-31	CERAMIC	100PF 10% 50V (G, IT)
C1002	1-162-288-31	CERAMIC	330PF 10% 50V (G, IT)
C1003	1-162-294-31	CERAMIC	0.001uF 10% 50V (G, IT)
C1004	1-162-294-31	CERAMIC	0.001uF 10% 50V (G, IT)
C1005	1-162-294-31	CERAMIC	0.001uF 10% 50V (G, IT)
C1006	1-162-294-31	CERAMIC	0.001uF 10% 50V (G, IT)
C1007	1-164-159-11	CERAMIC	0.1uF 50V (G, IT)
C1008	1-164-159-11	CERAMIC	0.1uF 50V (G, IT)
C1009	1-161-379-00	CERAMIC	0.01uF 20% 25V (G, IT)
C1010	1-161-379-00	CERAMIC	0.01uF 20% 25V (G, IT)
C1011	1-161-379-00	CERAMIC	0.01uF 20% 25V (G, IT)
C1012	1-161-379-00	CERAMIC	0.01uF 20% 25V (G, IT)
C1013	1-161-379-00	CERAMIC	0.01uF 20% 25V (G, IT)
C1014	1-161-379-00	CERAMIC	0.01uF 20% 25V (G, IT)
C1015	1-161-379-00	CERAMIC	0.01uF 20% 25V (G, IT)
C1017	1-161-379-00	CERAMIC	0.01uF 20% 25V (G, IT)
C1019	1-164-159-11	CERAMIC	0.1uF 50V (G, IT)
C1020	1-164-159-11	CERAMIC	0.1uF 50V (G, IT)
C1021	1-164-159-11	CERAMIC	0.1uF 50V (G, IT)
C1022	1-162-294-31	CERAMIC	0.001uF 10% 50V (G, IT)
C1023	1-162-294-31	CERAMIC	0.001uF 10% 50V (G, IT)

Ref. No.	Part No.	Description	Remark
C1024	1-161-379-00	CERAMIC	0.01uF 20% 25V (G, IT)
C2001	1-161-379-00	CERAMIC	0.01uF 20% 25V (G, IT)
< CIRCUIT BREAKER >			
CB801	△ 1-532-564-00	BREAKER, CIRCUIT (2.2A)	
CB851	△ 1-532-564-00	BREAKER, CIRCUIT (2.2A)	
< FILTER >			
CF1	1-567-389-11	FILTER, CERAMIC (10.7MHz)	
CF2	1-567-389-11	FILTER, CERAMIC (10.7MHz) (G, IT)	
CF81	1-567-389-11	FILTER, CERAMIC (10.7MHz)	
< CONNECTOR >			
CN201	* 1-569-155-11	PLUG, CONNECTOR 10P	
CN202	1-568-802-11	SOCKET, CONNECTOR 19P	
CN253	* 1-564-339-71	PIN, CONNECTOR 5P	
CN601	* 1-564-507-11	PLUG, CONNECTOR 4P	
CN602	* 1-564-509-11	PLUG, CONNECTOR 6P	
CN701	* 1-569-155-11	PLUG, CONNECTOR 10P	
CN702	* 1-569-155-11	PLUG, CONNECTOR 10P	
CN703	* 1-568-832-11	SOCKET, CONNECTOR 13P	
CN704	* 1-568-834-11	SOCKET, CONNECTOR 15P	
CN721	* 1-564-505-11	PLUG, CONNECTOR 2P	
CN751	* 1-564-336-00	PIN, CONNECTOR 2P	
CN752	* 1-564-336-71	PIN, CONNECTOR 2P	
CN785	* 1-564-339-00	PIN, CONNECTOR 5P	
CN786	* 1-564-340-00	PIN, CONNECTOR 6P	
CN801	* 1-508-694-00	PIN, CONNECTOR 8P	
CN802	* 1-564-706-11	PIN, CONNECTOR (SMALL TYPE) 4P	
< TRIMMER >			
CT21	1-141-227-00	TRIMMER (E, EA, AUS)	
CT22	1-141-227-00	TRIMMER (E, EA, AUS)	
< DIODE >			
D21	8-719-902-79	DIODE KV1236Z (E, EA, AUS)	
D201	8-719-010-34	DIODE UZ-4, 7BSC	
D205	8-719-912-20	DIODE 1SS120	
D601	8-719-912-20	DIODE 1SS120	
D701	8-719-933-48	DIODE HZS7B3L	
D721	8-719-912-20	DIODE 1SS120	
D735	8-719-933-40	DIODE HZS6C2L	
D736	8-719-912-20	DIODE 1SS120	
D737	8-719-912-20	DIODE 1SS120	
D738	8-719-912-20	DIODE 1SS120	
D739	8-719-912-20	DIODE 1SS120	
D785	8-719-912-20	DIODE 1SS120	
D786	8-719-912-20	DIODE 1SS120	
D787	8-719-912-20	DIODE 1SS120	

Note:
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MAIN, POWER, CHAMICAL CONDENSOR

Ref. No.	Part No.	Description	Remark
D788	8-719-912-20	DIODE 1SS120	
D789	8-719-912-20	DIODE 1SS120	
D790	8-719-912-20	DIODE 1SS120	
D791	8-719-912-20	DIODE 1SS120	
D792	8-719-912-20	DIODE 1SS120	
D793	8-719-912-20	DIODE 1SS120	
D801	8-719-912-20	DIODE 1SS120	
< INDUCTOR >			
△FB1001*	1-410-858-11	INDUCTOR (G, IT)	
△FB1002*	1-410-858-11	INDUCTOR (G, IT)	
< FRONT END >			
FE1	1-465-007-11	FRONT END (FM) (4 GANG) (G, IT)	
FE1	1-465-283-11	FRONT END (2 GANG) (AEP, H50)	
FE1	1-465-396-11	FRONT END (3 GANG) (EE)	
< ENCAPSULATED COMPONENT >			
FE2	1-236-461-11	ENCAPSULATED COMPONENT (US, Canadian)	
FE2	1-236-462-11	ENCAPSULATED COMPONENT (H55, H1100)	
FE2	1-236-777-11	ENCAPSULATED COMPONENT (E, EA, AUS)	
FE3	1-236-463-11	ENCAPSULATED COMPONENT (H55, H1100)	
FL81	1-236-465-11	ENCAPSULATED COMPONENT (G, IT)	
< IC >			
IC51	8-759-239-29	IC TC9217P	
IC81	8-759-821-45	IC LA1851N	
IC201	8-759-150-19	IC uPD75112CW-064	
IC202	8-752-335-15	IC CXD2500Q	
IC221	8-752-337-09	IC CXD2554P	
IC222	8-759-990-13	IC TDA1543A	
IC223	8-759-634-51	IC M5218AP	
IC253	8-759-633-65	IC M54641L	
IC601	8-759-112-93	IC uPC4570HA-1	
IC602	8-759-140-53	IC uPD4053BC	
IC621	8-759-634-50	IC M5218AL (H55, H1100)	
IC661	8-759-112-93	IC uPC4570HA-1	
IC701	8-759-634-50	IC M5218AL	
IC702	8-752-034-26	IC CXA1101P	
IC703	8-759-000-49	IC MC14066BCP	
IC704	8-752-038-00	IC CXA1298AP	
IC705	8-759-630-42	IC M4052BPK	
IC706	8-759-605-16	IC M51953BL	
IC785	8-759-240-01	IC TC4001BP	
IC801△	8-749-900-95	IC STK-4122MK2	
IC999	8-759-821-93	IC LA5601	

Ref. No.	Part No.	Description	Remark
< IC LINK >			
△ICP999	1-532-846-21	LINK, IC PRF5000 (5A) (H55, H1100)	
< TRANSFORMER >			
IFT81	1-404-853-11	TRANSFORMER, IF (CERAMIC FILTER)	
IFT82	1-404-807-11	TRANSFORMER, DISCRIMINATOR	
< JACK >			
J701	1-569-181-11	JACK, PIN 2P (VIDEO/AUX) (H50)	
J701	1-569-181-11	JACK, PIN 2P (PHONO) (H55, H1100)	
< COIL >			
L1	1-408-425-00	INDUCTOR 220uH (H55, H1100)	
L81	1-408-399-00	INDUCTOR 1.5uH	
L83	1-410-489-11	INDUCTOR 390uH	
L701	1-410-779-21	INDUCTOR 22mH	
L721	1-410-489-11	INDUCTOR 390uH	
L751	1-410-779-21	INDUCTOR 22mH	
L1001	1-410-521-11	INDUCTOR 100uH (G, IT)	
< FILTER >			
LPF81	1-235-164-00	FILTER, LOW PASS	
LPF82	1-235-164-00	FILTER, LOW PASS	
< TRANSISTOR >			
Q1	8-729-620-19	TRANSISTOR 2SC2724-CD	
Q2	8-729-620-19	TRANSISTOR 2SC2724-CD (G, IT)	
Q3	8-729-900-80	TRANSISTOR DTC114ES	
Q4	8-729-900-61	TRANSISTOR DTA114ES	
Q5	8-729-900-80	TRANSISTOR DTC114ES (EXCEPT US, Canadian)	
Q6	8-729-900-80	TRANSISTOR DTC114ES (EXCEPT US, Canadian)	
Q7	8-729-119-76	TRANSISTOR 2SA1175-HFE (EXCEPT US, Canadian)	
Q8	8-729-620-05	TRANSISTOR 2SC2603-EF (EXCEPT US, Canadian)	
Q9	8-729-900-80	TRANSISTOR DTC114ES (EXCEPT US, Canadian)	
Q10	8-729-900-80	TRANSISTOR DTC114ES (E, EA, AUS)	
Q51	8-729-202-67	TRANSISTOR 2SK246-GR3	
Q52	8-729-201-84	TRANSISTOR 2SC3112-B	
Q53	8-729-202-67	TRANSISTOR 2SK246-GR3 (H55, H1100)	
Q54	8-729-201-84	TRANSISTOR 2SC3112-B (H55, H1100)	
Q101	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q102	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q103	8-729-900-80	TRANSISTOR DTC114ES	
Q201	8-729-620-05	TRANSISTOR 2SC2603-EF	

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MAIN, POWER, CHAMICAL CONDENSOR

Ref. No.	Part No.	Description	Remark
Q231	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q232	8-729-141-26	TRANSISTOR 2SC3622A-LK	
Q233	8-729-900-65	TRANSISTOR DTA144ES	
Q234	8-729-900-80	TRANSISTOR DTC114ES	
Q252	8-729-900-80	TRANSISTOR DTC114ES	

Q253	8-729-900-80	TRANSISTOR DTC114ES	
Q601	8-729-904-39	TRANSISTOR DTC114TS	
Q603	8-729-900-80	TRANSISTOR DTC114ES	
Q651	8-729-904-39	TRANSISTOR DTC114TS	
Q721	8-729-801-93	TRANSISTOR 2SD1387	

Q722	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q723	8-729-900-80	TRANSISTOR DTC114ES	
Q731	8-729-904-39	TRANSISTOR DTC114TS	
Q732	8-729-900-61	TRANSISTOR DTA114ES	
Q735	8-729-111-29	TRANSISTOR 2SD1616A-K	

Q736	8-729-920-98	TRANSISTOR 2SD1761-EF	
Q738	8-729-900-61	TRANSISTOR DTA114ES	
Q739	8-729-900-89	TRANSISTOR DTC144ES	
Q740	8-729-900-89	TRANSISTOR DTC144ES	
Q781	8-729-904-39	TRANSISTOR DTC114TS	

Q785	8-729-801-93	TRANSISTOR 2SD1387	
Q786	8-729-900-80	TRANSISTOR DTC114ES	
Q787	8-729-900-80	TRANSISTOR DTC114ES	
Q789	8-729-900-80	TRANSISTOR DTC114ES	
Q790	8-729-900-80	TRANSISTOR DTC114ES	

Q791	8-729-900-80	TRANSISTOR DTC114ES	
Q801	8-729-900-80	TRANSISTOR DTC114ES	
Q999	8-729-900-80	TRANSISTOR DTC114ES	

< RESISTOR >

R1	1-249-411-11	CARBON	330	5%	1/4W	
R2	1-249-393-11	CARBON	10	5%	1/4W (G. IT)	
R2	1-249-411-11	CARBON	330	5%	1/4W (EXCEPT G. IT)	
R3	1-247-891-00	CARBON	330K	5%	1/4W	
R4	1-249-411-11	CARBON	330	5%	1/4W	
R5	1-247-891-00	CARBON	330K	5%	1/4W (G. IT)	
R6	1-249-411-11	CARBON	330	5%	1/4W (G. IT)	
R7	1-249-405-11	CARBON	100	5%	1/4W	
R8	1-249-441-11	CARBON	100K	5%	1/4W	
R9	1-249-437-11	CARBON	47K	5%	1/4W	
R10	1-249-421-11	CARBON	2.2K	5%	1/4W (E. EA. AUS)	
R10	1-249-437-11	CARBON	47K	5%	1/4W (H55, H1100)	
R11	1-249-421-11	CARBON	2.2K	5%	1/4W (H55, H1100)	
R11	1-249-429-11	CARBON	10K	5%	1/4W (E. EA. AUS)	
R12	1-249-421-11	CARBON	2.2K	5%	1/4W (H55, H1100)	
R12	1-249-429-11	CARBON	10K	5%	1/4W (E. EA. AUS)	

R13	1-249-433-11	CARBON	22K	5%	1/4W (H55, H1100)	
R14	1-249-432-11	CARBON	18K	5%	1/4W (H55, H1100)	
R15	1-247-903-00	CARBON	1M	5%	1/4W (H55, H1100)	
R20	1-249-425-11	CARBON	4.7K	5%	1/4W	(EXCEPT US, Canadian)

R21	1-249-429-11	CARBON	10K	5%	1/4W (E. EA. AUS)	
R22	1-249-429-11	CARBON	10K	5%	1/4W (E. EA. AUS)	
R23	1-249-407-11	CARBON	150	5%	1/4W (US, Canadian)	
R51	1-249-417-11	CARBON	1K	5%	1/4W	
R52	1-249-417-11	CARBON	1K	5%	1/4W	

R53	1-249-441-11	CARBON	100K	5%	1/4W	
R54	1-249-417-11	CARBON	1K	5%	1/4W	
R55	1-249-425-11	CARBON	4.7K	5%	1/4W	
R56	1-249-405-11	CARBON	100	5%	1/4W	
R57	1-249-401-11	CARBON	47	5%	1/4W	

R58	1-249-423-11	CARBON	3.3K	5%	1/4W	
R59	1-249-414-11	CARBON	560	5%	1/4W	
R60	1-249-417-11	CARBON	1K	5%	1/4W	
R61	1-249-410-11	CARBON	270	5%	1/4W	
R62	1-249-418-11	CARBON	1.2K	5%	1/4W	

R63	1-249-421-11	CARBON	2.2K	5%	1/4W	
R64	1-249-425-11	CARBON	4.7K	5%	1/4W	
R65	1-249-425-11	CARBON	4.7K	5%	1/4W	
R66	1-249-405-11	CARBON	100	5%	1/4W (H50)	
R67	1-249-423-11	CARBON	3.3K	5%	1/4W (H55, H1100)	

R68	1-249-414-11	CARBON	560	5%	1/4W (H55, H1100)	
R69	1-249-417-11	CARBON	1K	5%	1/4W (H55, H1100)	
R70	1-249-410-11	CARBON	270	5%	1/4W (H55, H1100)	
R71	1-249-433-11	CARBON	22K	5%	1/4W (H55, H1100)	
R72	1-249-421-11	CARBON	2.2K	5%	1/4W (H55, H1100)	

R73	1-249-425-11	CARBON	4.7K	5%	1/4W (H55, H1100)	
R74	1-249-425-11	CARBON	4.7K	5%	1/4W (H55, H1100)	
R75	1-249-393-11	CARBON	10	5%	1/4W	
R81	1-249-433-11	CARBON	22K	5%	1/4W	
R82	1-249-417-11	CARBON	1K	5%	1/4W	

R83	1-249-399-11	CARBON	33	5%	1/4W	
R84	1-249-429-11	CARBON	10K	5%	1/4W	
R85	1-249-429-11	CARBON	10K	5%	1/4W	
R86	1-249-437-11	CARBON	47K	5%	1/4W	
R87	1-249-409-11	CARBON	220	5%	1/4W	

R88	1-249-429-11	CARBON	10K	5%	1/4W	
R89	1-249-429-11	CARBON	10K	5%	1/4W	
R90	1-249-421-11	CARBON	2.2K	5%	1/4W	
R91	1-249-421-11	CARBON	2.2K	5%	1/4W	
R92	1-247-891-00	CARBON	330K	5%	1/4W	

R93	1-247-891-00	CARBON	330K	5%	1/4W	
R94	1-249-417-11	CARBON	1K	5%	1/4W	
R95	1-249-417-11	CARBON	1K	5%	1/4W	
R96	1-249-425-11	CARBON	4.7K	5%	1/4W	

MAIN, POWER, CHAMICAL CONDENSOR

Ref. No.	Part No.	Description	Remark		
R97	1-249-425-11	CARBON	4.7K	5%	1/4W
R98	1-249-404-00	CARBON	82	5%	1/4W
R99	1-249-417-11	CARBON	1K	5%	1/4W (EXCEPT G, IT)
R99	1-249-420-11	CARBON	1.8K	5%	1/4W (G, IT)
R100	1-247-848-11	CARBON	5.1K	5%	1/4W
R102	1-249-430-11	CARBON	12K	5%	1/4W (EXCEPT G, IT)
R103	1-249-428-11	CARBON	8.2K	5%	1/4W
R104	1-249-435-11	CARBON	33K	5%	1/4W
R105	1-249-431-11	CARBON	15K	5%	1/4W
R106	1-249-417-11	CARBON	1K	5%	1/4W
R107	1-249-430-11	CARBON	12K	5%	1/4W (G, IT)
R201	1-249-441-11	CARBON	100K	5%	1/4W
R202	1-249-441-11	CARBON	100K	5%	1/4W
R203	1-249-422-11	CARBON	2.7K	5%	1/4W
R204	1-249-422-11	CARBON	2.7K	5%	1/4W
R205	1-249-437-11	CARBON	47K	5%	1/4W
R206	1-249-437-11	CARBON	47K	5%	1/4W
R207	1-249-437-11	CARBON	47K	5%	1/4W
R208	1-249-437-11	CARBON	47K	5%	1/4W
R209	1-249-441-11	CARBON	100K	5%	1/4W
R210	1-249-437-11	CARBON	47K	5%	1/4W
R211	1-249-423-11	CARBON	3.3K	5%	1/4W
R212	1-249-423-11	CARBON	3.3K	5%	1/4W
R213	1-249-429-11	CARBON	10K	5%	1/4W
R214	1-249-437-11	CARBON	47K	5%	1/4W
R215	1-249-429-11	CARBON	10K	5%	1/4W
R216	1-249-441-11	CARBON	100K	5%	1/4W
R217	1-249-411-11	CARBON	330	5%	1/4W
R218	1-249-411-11	CARBON	330	5%	1/4W
R219	1-249-417-11	CARBON	1K	5%	1/4W
R220	1-249-421-11	CARBON	2.2K	5%	1/4W
R222	1-249-405-11	CARBON	100	5%	1/4W
R223	1-249-417-11	CARBON	1K	5%	1/4W
R224	1-249-417-11	CARBON	1K	5%	1/4W
R225	1-249-417-11	CARBON	1K	5%	1/4W
R226	1-249-417-11	CARBON	1K	5%	1/4W
R231	1-249-429-11	CARBON	10K	5%	1/4W
R232	1-249-425-11	CARBON	4.7K	5%	1/4W
R233	1-249-429-11	CARBON	10K	5%	1/4W
R234	1-249-393-11	CARBON	10	5%	1/4W
R235	1-249-417-11	CARBON	1K	5%	1/4W
R236	1-249-417-11	CARBON	1K	5%	1/4W
R237	1-249-419-11	CARBON	1.5K	5%	1/4W
R238	1-249-419-11	CARBON	1.5K	5%	1/4W
R239	1-249-433-11	CARBON	22K	5%	1/4W
R241	1-249-413-11	CARBON	470	5%	1/4W
R242	1-249-417-11	CARBON	1K	5%	1/4W
R243	1-249-411-11	CARBON	330	5%	1/4W

Ref. No.	Part No.	Description	Remark		
R244	1-249-411-11	CARBON	330	5%	1/4W
R245	1-249-421-11	CARBON	2.2K	5%	1/4W
R247	1-249-433-11	CARBON	22K	5%	1/4W
R248	1-249-421-11	CARBON	2.2K	5%	1/4W
R249	1-249-429-11	CARBON	10K	5%	1/4W
R250	1-249-429-11	CARBON	10K	5%	1/4W
R251	1-249-425-11	CARBON	4.7K	5%	1/4W
R252	1-249-425-11	CARBON	4.7K	5%	1/4W
R286	1-249-405-11	CARBON	100	5%	1/4W
R287	1-249-405-11	CARBON	100	5%	1/4W
R288	1-249-405-11	CARBON	100	5%	1/4W
R289	1-249-405-11	CARBON	100	5%	1/4W
R290	1-249-405-11	CARBON	100	5%	1/4W
R291	1-249-413-11	CARBON	470	5%	1/4W
R292	1-249-413-11	CARBON	470	5%	1/4W
R293	1-249-413-11	CARBON	470	5%	1/4W
R294	1-249-413-11	CARBON	470	5%	1/4W
R295	1-249-405-11	CARBON	100	5%	1/4W
R296	1-249-405-11	CARBON	100	5%	1/4W
R297	1-249-405-11	CARBON	100	5%	1/4W
R298	1-249-405-11	CARBON	100	5%	1/4W
R299	1-249-441-11	CARBON	100K	5%	1/4W
R601	1-247-881-00	CARBON	120K	5%	1/4W
R602	1-249-405-11	CARBON	100	5%	1/4W
R603	1-247-882-11	CARBON	130K	5%	1/4W
R604	1-249-426-11	CARBON	5.6K	5%	1/4W
R605	1-249-409-11	CARBON	220	5%	1/4W
R606	1-249-441-11	CARBON	100K	5%	1/4W
R607	1-249-418-11	CARBON	1.2K	5%	1/4W
R609	1-249-420-11	CARBON	1.8K	5%	1/4W
R610	1-247-887-00	CARBON	220K	5%	1/4W
R611	1-247-881-00	CARBON	120K	5%	1/4W
R612	1-249-405-11	CARBON	100	5%	1/4W
R613	1-247-882-11	CARBON	130K	5%	1/4W
R614	1-249-426-11	CARBON	5.6K	5%	1/4W
R615	1-249-409-11	CARBON	220	5%	1/4W
R616	1-249-441-11	CARBON	100K	5%	1/4W
R617	1-249-441-11	CARBON	100K	5%	1/4W
R621	1-249-417-11	CARBON	1K	5%	1/4W
R622	1-249-437-11	CARBON	47K	5%	1/4W
R623	1-249-437-11	CARBON	47K	5%	1/4W (H5 5, H1100)
R624	1-247-897-11	CARBON	560K	5%	1/4W (H5 5, H1100)
R625	1-249-417-11	CARBON	1K	5%	1/4W (H5 5, H1100)
R626	1-249-425-11	CARBON	4.7K	5%	1/4W
R627	1-249-437-11	CARBON	47K	5%	1/4W
R651	1-247-881-00	CARBON	120K	5%	1/4W
R652	1-249-405-11	CARBON	100	5%	1/4W
R653	1-247-882-11	CARBON	130K	5%	1/4W
R654	1-249-426-11	CARBON	5.6K	5%	1/4W

MAIN, POWER, CHAMICAL CONDENSOR

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R655	1-249-409-11	CARBON	220	5%	1/4W	R735	1-249-413-11	CARBON	470	5%	1/4W
R656	1-249-441-11	CARBON	100K	5%	1/4W	R736	1-249-411-11	CARBON	330	5%	1/4W
R657	1-249-418-11	CARBON	1.2K	5%	1/4W	R737	1-249-405-11	CARBON	100	5%	1/4W
R659	1-249-420-11	CARBON	1.8K	5%	1/4W	R738	1-249-414-11	CARBON	560	5%	1/4W
R660	1-247-887-00	CARBON	220K	5%	1/4W	R739	1-249-429-11	CARBON	10K	5%	1/4W
R661	1-247-881-00	CARBON	120K	5%	1/4W	R740	1-249-429-11	CARBON	10K	5%	1/4W
R662	1-249-405-11	CARBON	100	5%	1/4W	R741	1-249-429-11	CARBON	10K	5%	1/4W
R663	1-247-882-11	CARBON	130K	5%	1/4W	R742	1-249-437-11	CARBON	47K	5%	1/4W
R664	1-249-426-11	CARBON	5.6K	5%	1/4W	R743	1-249-429-11	CARBON	10K	5%	1/4W
R665	1-249-409-11	CARBON	220	5%	1/4W	R744	1-249-425-11	CARBON	4.7K	5%	1/4W
R666	1-249-441-11	CARBON	100K	5%	1/4W	R747	1-249-405-11	CARBON	100	5%	1/4W
R671	1-249-417-11	CARBON	1K	5%	1/4W	R748	1-249-405-11	CARBON	100	5%	1/4W
R672	1-249-437-11	CARBON	47K	5%	1/4W	R751	1-249-437-11	CARBON	47K	5%	1/4W
R673	1-249-437-11	CARBON	47K	5%	1/4W (H55, H1100)	R752	1-249-421-11	CARBON	2.2K	5%	1/4W
R674	1-249-897-11	CARBON	560K	5%	1/4W (H55, H1100)	R754	1-249-431-11	CARBON	15K	5%	1/4W
R675	1-249-417-11	CARBON	1K	5%	1/4W (H55, H1100)	R755	1-249-437-11	CARBON	47K	5%	1/4W
R676	1-249-425-11	CARBON	4.7K	5%	1/4W	R756	1-249-426-11	CARBON	5.6K	5%	1/4W
R677	1-249-437-11	CARBON	47K	5%	1/4W	R758	1-249-437-11	CARBON	47K	5%	1/4W
R701	1-249-437-11	CARBON	47K	5%	1/4W	R760	1-249-437-11	CARBON	47K	5%	1/4W
R702	1-249-421-11	CARBON	2.2K	5%	1/4W	R761	1-249-429-11	CARBON	10K	5%	1/4W
R704	1-249-431-11	CARBON	15K	5%	1/4W	R762	1-249-426-11	CARBON	5.6K	5%	1/4W
R705	1-249-437-11	CARBON	47K	5%	1/4W	R763	1-249-430-11	CARBON	12K	5%	1/4W
R706	1-249-426-11	CARBON	5.6K	5%	1/4W	R781	1-249-421-11	CARBON	2.2K	5%	1/4W
R708	1-249-437-11	CARBON	47K	5%	1/4W	R782	1-249-425-11	CARBON	4.7K	5%	1/4W
R709	1-247-870-11	CARBON	43K	5%	1/4W	R785	1-249-421-11	CARBON	2.2K	5%	1/4W
R710	1-249-437-11	CARBON	47K	5%	1/4W	R786	1-249-421-11	CARBON	2.2K	5%	1/4W
R711	1-249-429-11	CARBON	10K	5%	1/4W	R787	1-249-421-11	CARBON	2.2K	5%	1/4W
R712	1-249-426-11	CARBON	5.6K	5%	1/4W	R788	1-249-421-11	CARBON	2.2K	5%	1/4W
R713	1-249-430-11	CARBON	12K	5%	1/4W	R789	1-249-421-11	CARBON	2.2K	5%	1/4W
R714	1-249-429-11	CARBON	10K	5%	1/4W	R790	1-249-421-11	CARBON	2.2K	5%	1/4W
R715	1-247-864-11	CARBON	24K	5%	1/4W (US, Canadian)	R791	1-249-429-11	CARBON	10K	5%	1/4W
R715	1-249-434-11	CARBON	27K	5%	1/4W (EXCEPT US, Canadian)	R792	1-249-418-11	CARBON	1.2K	5%	1/4W
R716	1-249-441-11	CARBON	100K	5%	1/4W	R793	1-249-441-11	CARBON	100K	5%	1/4W
R717	1-249-429-11	CARBON	10K	5%	1/4W	R794	1-249-425-11	CARBON	4.7K	5%	1/4W
R721	1-249-423-11	CARBON	3.3K	5%	1/4W	R795	1-249-429-11	CARBON	10K	5%	1/4W
R722	1-249-431-11	CARBON	15K	5%	1/4W (H50)	R796	1-249-429-11	CARBON	10K	5%	1/4W
R722	1-249-438-11	CARBON	56K	5%	1/4W (H55, H1100)	R797	1-249-432-11	CARBON	18K	5%	1/4W
R723	1-249-433-11	CARBON	22K	5%	1/4W (H55, H1100)	R798	1-249-421-11	CARBON	2.2K	5%	1/4W
R724	1-249-437-11	CARBON	47K	5%	1/4W (H55, H1100)	R799	1-249-429-11	CARBON	10K	5%	1/4W
R725	1-249-427-11	CARBON	6.8K	5%	1/4W	R801	1-249-417-11	CARBON	1K	5%	1/4W
R726	1-249-437-11	CARBON	47K	5%	1/4W	R802	1-249-438-11	CARBON	56K	5%	1/4W
R727	1-249-388-11	CARBON	3.9	5%	1/6W	R803	1-249-413-11	CARBON	470	5%	1/4W
R729	1-249-417-11	CARBON	1K	5%	1/4W	R804	1-249-438-11	CARBON	56K	5%	1/4W
R731	1-249-421-11	CARBON	2.2K	5%	1/4W	R805	1-249-389-11	CARBON	4.7	5%	1/4W (EXCEPT G. IT)
R732	1-249-425-11	CARBON	4.7K	5%	1/4W	R826	1-249-417-11	CARBON	1K	5%	1/4W
R733	1-249-429-11	CARBON	10K	5%	1/4W	R851	1-249-417-11	CARBON	1K	5%	1/4W
R734	1-249-437-11	CARBON	47K	5%	1/4W	R852	1-249-438-11	CARBON	56K	5%	1/4W
						R853	1-249-413-11	CARBON	470	5%	1/4W
						R854	1-249-438-11	CARBON	56K	5%	1/4W

MAIN, POWER, CHAMICAL CONDENSOR

SWITCH (A)

Ref. No.	Part No.	Description	Remark
R855	1-249-389-11	CARBON 4.7 5% 1/4W (EXCEPT G, IT)	
R871	1-249-429-11	CARBON 10K 5% 1/4W	
R872	1-249-437-11	CARBON 47K 5% 1/4W	
R873	1-249-429-11	CARBON 10K 5% 1/4W	
R874	1-247-883-00	CARBON 150K 5% 1/4W	
R875	1-249-421-11	CARBON 2.2K 5% 1/4W	
R876	1-249-421-11	CARBON 2.2K 5% 1/4W	
R877	△ 1-212-881-11	FUSIBLE 100 5% 1/4W F	
R878	1-249-417-11	CARBON 1K 5% 1/4W	
R879	1-249-417-11	CARBON 1K 5% 1/4W	
R880	△ 1-212-881-11	FUSIBLE 100 5% 1/4W F	
R881	1-249-421-11	CARBON 2.2K 5% 1/4W	
R882	1-249-421-11	CARBON 2.2K 5% 1/4W	
R883	△ 1-212-881-11	FUSIBLE 100 5% 1/4W F	
R1001	1-249-389-11	CARBON 4.7 5% 1/4W (G, IT)	
R1002	1-249-389-11	CARBON 4.7 5% 1/4W (G, IT)	
R1003	1-249-389-11	CARBON 4.7 5% 1/4W (G, IT)	
R7001	1-249-421-11	CARBON 2.2K 5% 1/4W	
R7002	1-249-421-11	CARBON 2.2K 5% 1/4W	
< VARIABLE RESISTOR >			
RV81	1-238-017-11	RES. ADJ. CARBON 22K (US, Canadian)	
RV81	1-238-601-11	RES. ADJ. CARBON 22K (EXCEPT US, Canadian)	
RV82	1-238-017-11	RES. ADJ. CARBON 22K (US, Canadian)	
RV82	1-238-601-11	RES. ADJ. CARBON 22K (EXCEPT US, Canadian)	
RV601	1-238-011-11	RES. ADJ. CARBON 470 (US, Canadian)	
RV601	1-238-596-11	RES. ADJ. CARBON 470 (EXCEPT US, Canadian)	
RV611	1-238-011-11	RES. ADJ. CARBON 470 (US, Canadian)	
RV611	1-238-596-11	RES. ADJ. CARBON 470 (EXCEPT US, Canadian)	
RV651	1-238-011-11	RES. ADJ. CARBON 470 (US, Canadian)	
RV651	1-238-596-11	RES. ADJ. CARBON 470 (EXCEPT US, Canadian)	
RV661	1-238-011-11	RES. ADJ. CARBON 470 (US, Canadian)	
RV661	1-238-596-11	RES. ADJ. CARBON 470 (EXCEPT US, Canadian)	
RV701	1-238-017-11	RES. ADJ. CARBON 22K (US, Canadian)	
RV701	1-238-601-11	RES. ADJ. CARBON 22K (EXCEPT US, Canadian)	
RV721	1-238-019-11	RES. ADJ. CARBON 47K (US, Canadian)	
RV721	1-238-603-11	RES. ADJ. CARBON 100K (EXCEPT US, Canadian)	

Ref. No.	Part No.	Description	Remark
RV722	1-238-019-11	RES. ADJ. CARBON 47K (US, Canadian)	
RV722	1-238-603-11	RES. ADJ. CARBON 100K (EXCEPT US, Canadian)	
RV751	1-238-017-11	RES. ADJ. CARBON 22K (US, Canadian)	
RV751	1-238-601-11	RES. ADJ. CARBON 22K (EXCEPT US, Canadian)	
< RELAY >			
RY601	1-515-614-21	RELAY	
< SWITCH >			
S701	1-554-088-00	SWITCH, KEYBOARD (SYSTEM RESET)	
S721	1-572-185-11	SWITCH, SLIDE (ISS) (H55, H1100)	
< COIL >			
T1	1-402-424-11	COIL (ANT, SW3) (E, EA, AUS)	
T2	1-402-346-11	COIL (OSC, SW3) (E, EA, AUS)	
< TRANSFORMER >			
T721	1-433-347-11	TRANSFORMER, BIAS OSCILLATION	
< TERMINAL BOARD >			
TB1	* 1-537-138-31	TERMINAL BOARD (ANTENNA) (H55, H1100)	
TB1	1-537-238-21	TERMINAL BOARD (ANTENNA) (H50)	
TB801	1-537-238-11	TERMINAL BOARD (SPEAKER)	
< TEST PIN >			
TP81	* 1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P	
TP701	* 1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P	
TP702	* 1-568-449-11	HOUSING, CONNECTOR (PC BOARD) 3P (H55, H1100)	
< CRYSTAL >			
X51	1-577-126-11	VIBRATOR, CRYSTAL (7.2MHz)	
X81	1-577-075-11	OSCILLATOR, CERAMIC (456kHz)	
X201	1-577-358-21	VIBRATOR, CERAMIC (4MHz)	
X251	1-567-908-11	VIBRATOR, CRYSTAL (16.9344MHz)	

* 1-635-160-11 SWITCH (A) BOARD *****			
< CONNECTOR >			
CN1A	* 1-564-498-11	PIN, CONNECTOR 5P	

Note:

The components identified by mark **△** or dotted line with mark **△** are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque **△** sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

SWITCH (A)

SWITCH (B)

Ref. No.	Part No.	Description	Remark
----------	----------	-------------	--------

< SWITCH >

S1A	1-572-335-11	SWITCH, LEAF (CrO2)	
S2A	1-571-736-11	SWITCH, LEAF (MD POWER)	
S3A	1-571-736-11	SWITCH, LEAF (PLAY)	

* 1-635-160-11 SWITCH (B) BOARD

< CONNECTOR >

CN1B	* 1-564-499-11	PIN, CONNECTOR 6P	
------	----------------	-------------------	--

< SWITCH >

S1B	1-572-335-11	SWITCH, LEAF (CrO2)	
S2B	1-571-736-11	SWITCH, LEAF (MD POWER)	
S3B	1-571-736-11	SWITCH, LEAF (PLAY)	
S4B	1-571-736-11	SWITCH, LEAF (REC)	

MISCELLANEOUS

901	* 1-562-908-11	CONNECTOR, FEMALE (NO SHIELD) (G, IT)	
902	1-533-213-31	HOLDER, FUSE	
904	* 1-634-850-11	CHEMICAL CONDENSOR	
910	* 1-634-854-11	VR BOARD (INCLUDING JUMPER BOARD)	
911	1-575-672-11	WIRE, FLAT TYPE (13 CORE)	
912	1-575-674-11	WIRE, FLAT TYPE (8 CORE)	
913	1-535-832-12	JUMPER, FILM (WITH TERMINAL)	
914	1-575-673-11	WIRE, FLAT TYPE (15 CORE)	
ANT1	1-501-270-00	ANTENNA, TELESCOPIC (H50, H55)	
F901	△ 1-532-215-00	FUSE, TIME-LAG (T0.8A) (EXCEPT US, Canadian)	
F901	△ 1-532-742-11	FUSE, GLASS TUBE (1.6A) (US, Canadian)	
F901	△ 1-532-259-00	FUSE, TIME-LAG (T1.6A) (E, EA, AUS)	
HE1	1-543-673-11	HEAD, MAGNETIC (ERASE)	
HP1	1-543-319-11	HEAD, MAGNETIC (REC/PB)	
HRP1	1-543-319-11	HEAD, MAGNETIC (REC/PB)	
M1	X-3358-211-1	MOTOR (A) ASSY (DECK A)	
M2	X-3358-211-1	MOTOR (B) ASSY (DECK B)	
M101	X-4917-523-3	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	
M103	A-4608-362-A	MOTOR (L) ASSY (LOADING)	
T901	△ 1-450-055-11	TRANSFORMER, POWER (E, EA, AUS)	
T901	△ 1-450-057-11	TRANSFORMER, POWER (US, Canadian)	
T901	△ 1-450-463-11	TRANSFORMER, POWER (H55, H1100)	

Ref. No.	Part No.	Description	Remark
----------	----------	-------------	--------

ACCESSORY & PACKING MATERIAL

	1-465-343-11	REMOTE COMMANDER (RM-S6)	
	1-501-369-11	ANTENNA (H1100) (MHC)	
	1-501-374-11	ANTENNA, LOOP (FH)	
△	1-555-074-00	CORD, POWER (AUS) (FH)	
△	1-556-280-00	CORD, POWER (E) (FH)	
△	1-575-131-11	CORD, POWER (EA, H55, H1100) (FH)	
△	1-575-706-11	CORD, POWER (US, Canadian) (FH)	
	1-575-495-11	CORD, SPEAKER (H1100) (MHC)	
△	1-569-007-11	ADAPTOR, CONVERSION 2P (E) (FH)	
△	1-569-008-11	ADAPTOR, CONVERSION 2P (EA) (FH)	
	2-181-754-01	COVER, BATTERY	
	3-753-063-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE) (AEP, E, EA, AUS) (FH)	
	3-753-063-21	MANUAL, INSTRUCTION (ENGLISH, FRENCH) (US, Canadian) (FH)	
	3-753-063-41	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, PORTUGUESE, ITALIAN) (AEP, G, IT) (FH)	
	3-753-063-51	MANUAL, INSTRUCTION (ENGLISH, GERMAN, RUSSIAN, POLISH) (EE) (FH)	
*	3-795-629-11	INSTRUCTION (AEP) (FH)	
*	4-936-852-01	CUSHION (LOWER)	
*	4-936-853-01	CUSHION (UPPER)	
*	4-936-899-01	CUSHION	
*	4-944-534-01	INDIVIDUAL CARTON (E, EA) (FH)	
*	4-944-535-01	INDIVIDUAL CARTON (US, Canadian, AUS) (FH)	
*	4-944-536-01	INDIVIDUAL CARTON (H55) (FH)	
*	4-944-537-01	INDIVIDUAL CARTON (H1100) (MHC)	

Note:

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

HCD-H50/H55/H1100

SONY[®] SERVICE MANUAL

US Model
Canadian Model
E Model
Australian Model

HCD-H50

AEP Model

HCD-H55
HCD-H1100

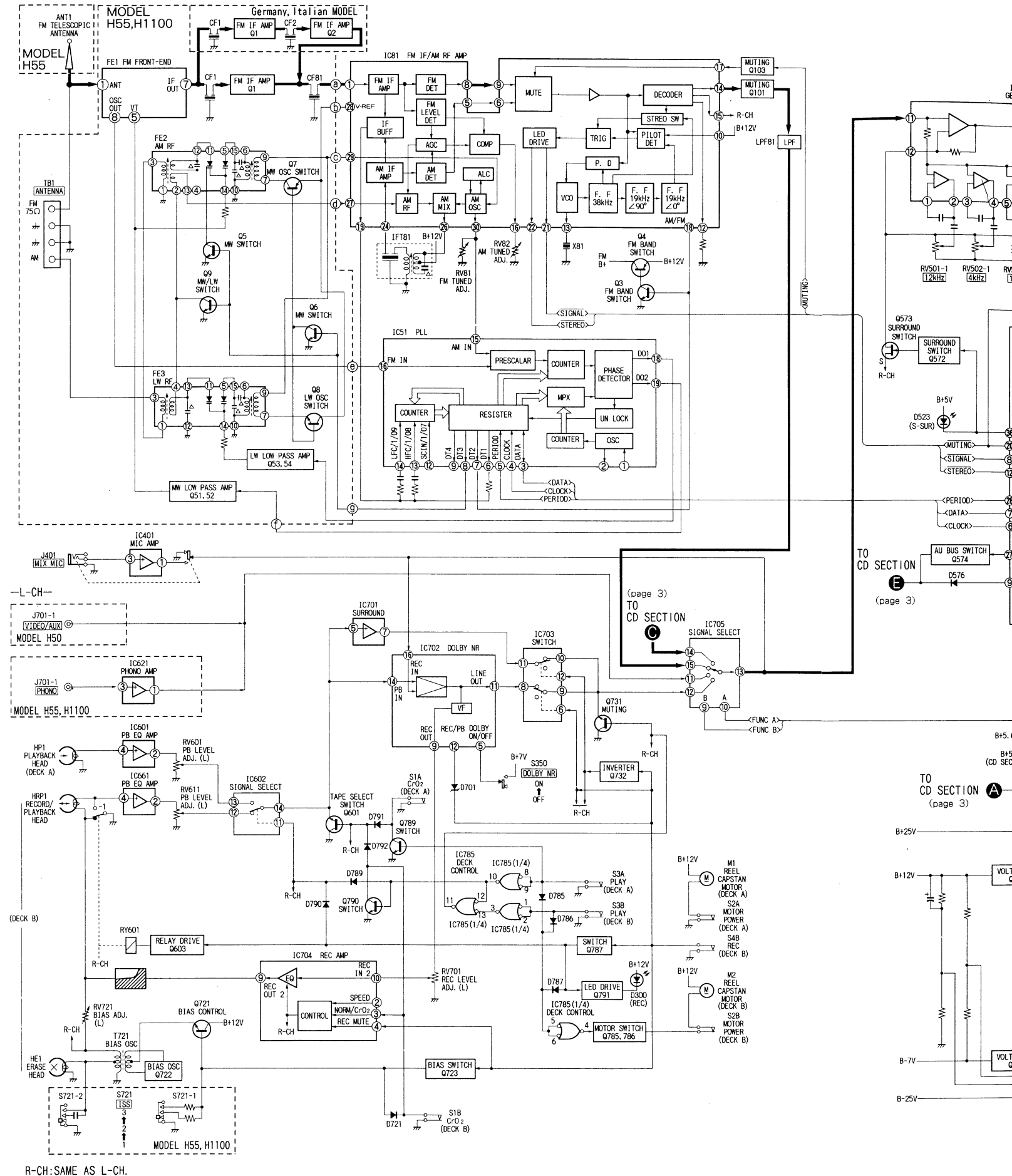
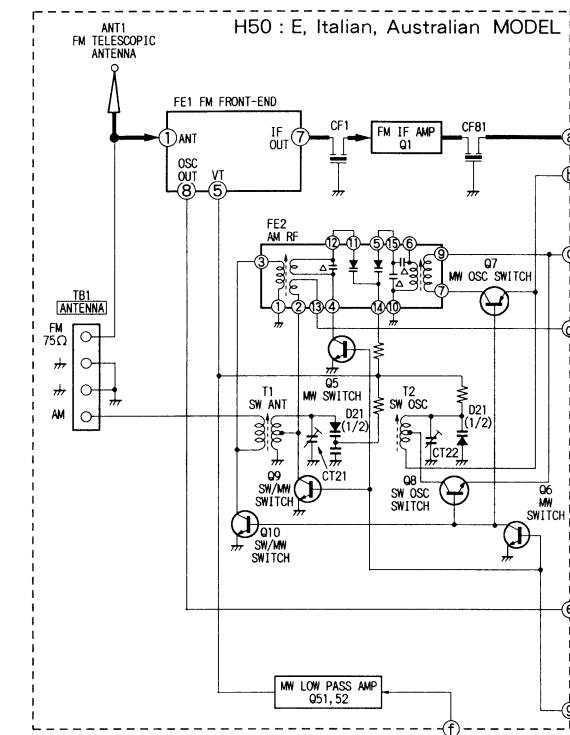
SUPPLEMENT-2

File this Supplement with the Service Manual.

BLOCK DIAGRAMS

[illegible]

The schematic diagram illustrates the internal components of the H50 receiver. It begins with an 'ANT1 FM TELESCOPIC ANTENNA' connected to a 'TB1 ANTENNA' block. This block has three terminals: 'FM 75Ω', 'AM', and a common ground. The 'FM 75Ω' terminal is connected to the 'ANT' input of the 'FE1 FM FRONT-END' block. The 'FE1' block has an 'OSC OUT' terminal (labeled '8') and a 'VT' terminal (labeled '5'). The 'OSC OUT' terminal is connected to the 'AM' terminal of the 'TB1' block. The 'FE1' block's output is connected to an 'LF OUT' terminal, which is then connected to the input of the 'FM 1F AMP Q1' block. The output of 'Q1' is connected to a 'CFB1' terminal, which is then connected to the input of the 'FE2 AM RF' block. The 'FE2' block is a complex circuit with multiple terminals (1 through 14) and is connected to the 'MW LOW PASS AMP Q51, 52' block. The 'MW' block has two outputs, 'Q51, 52', which are connected to the 'FM 75Ω' and 'AM' terminals of the 'TB1' block. The entire circuit is enclosed in a dashed box, with a label 'H50 : US, Canadian MODEL' at the top right.



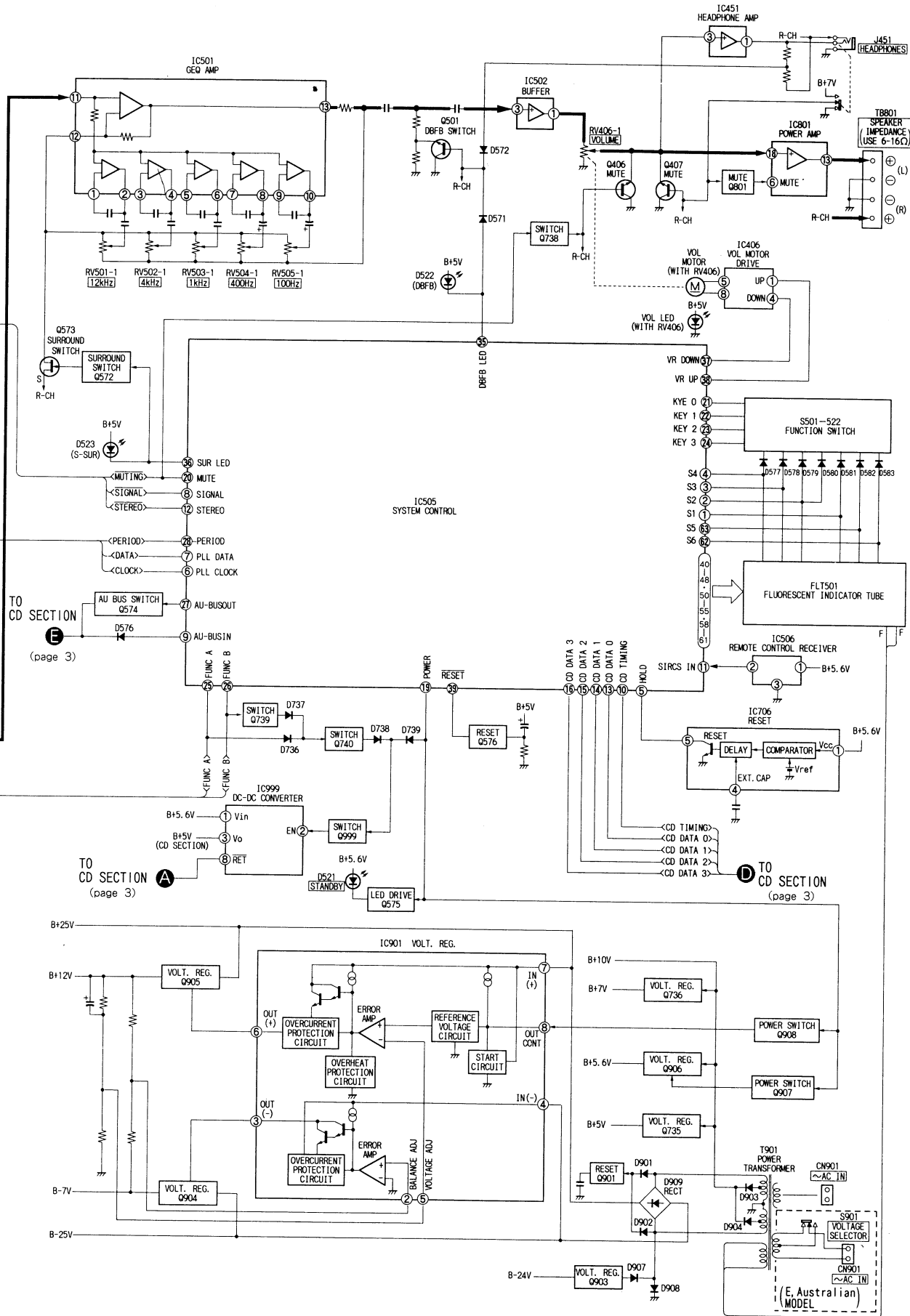
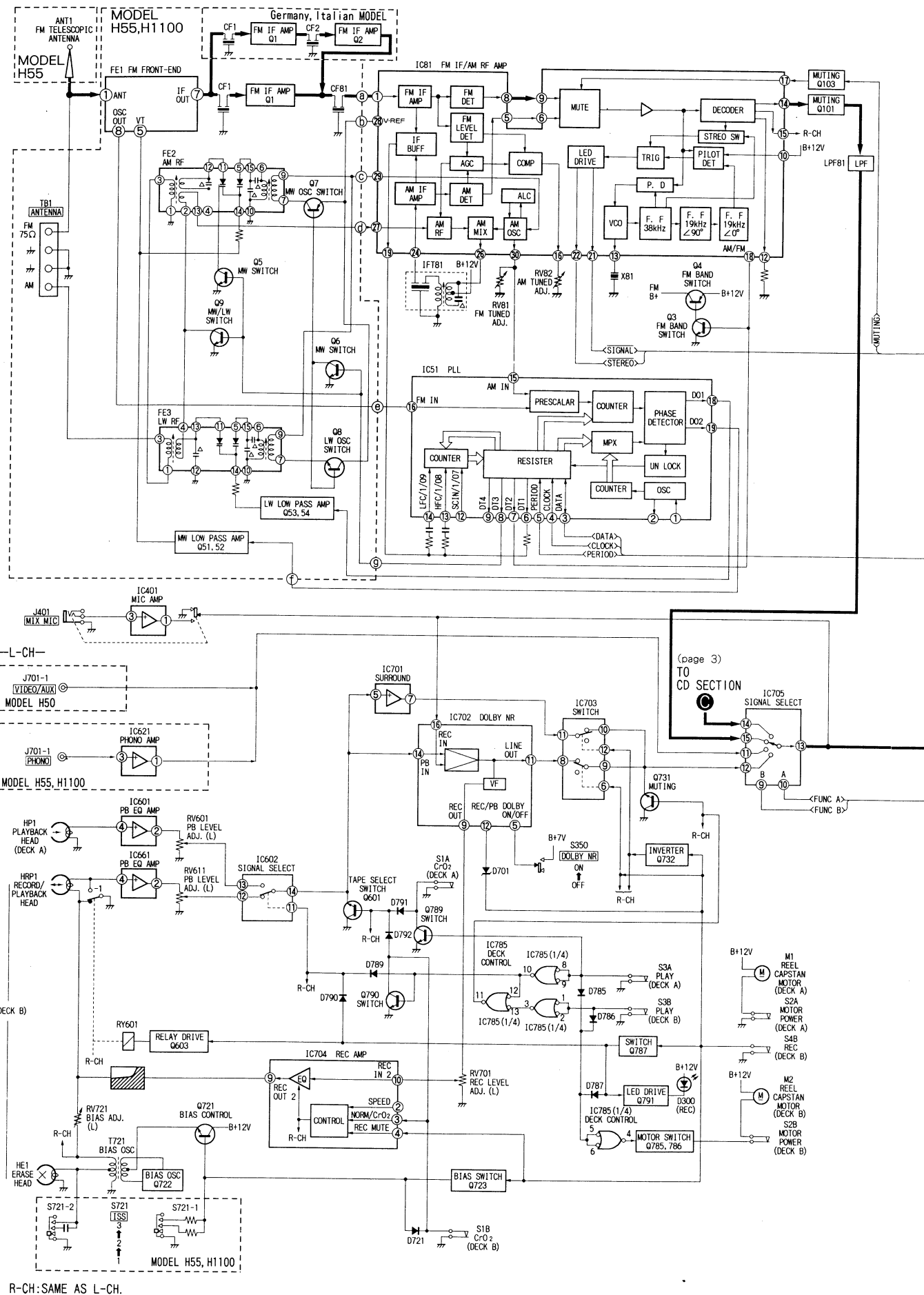
R-CH: SAME AS L-CH.

Canadian MODEL

tralian MODEL

L-CH-

(DECK B)



SERVICE MANUAL

US Model
Canadian Model
E Model
Australian Model
FH-B50CD
AEP Model

- FH-B50CD/B55CD and MHC-1100 are composed of following models. As for the service manual, it is issued for each component models, then, please refer to it.

COMPONENT MODEL NAME FOR FH-B B55CD

System	FH-B50CD	FH-B55CD	MHC-1100
Component			
Tuner, deck, CD, amplifier	HCD-H50	HCD-H55	HCD-H1100
Speaker System	SS-H77		SS-H1200

SPECIFICATIONS

Destination	Power requirements	Power consumption
US	120V AC, 60Hz	60 watts
Canadian	120V AC, 60Hz	80 watts
AEP, G, IT, EE	220-230V AC, 50/60Hz	60 watts
E, EA, AUS	110-120V or 220-240V AC adjustable, 50/60Hz	60 watts

Dimensions Approx. 615 × 285 × 255 mm (w/h/d)
(24 1/4 × 11 1/4 × 10 1/8 inches)
incl. projecting parts and controls

Weight Approx. 11.2 kg (24 lb 11 oz)

Accessories supplied
AM loop antenna (1)
Remote commander (1)
Sony SUM-3 (NS) batteries (2)
FM lead antenna (1) (MHC-1100 only)

Design and specifications subject to change without notice.



- AUS : Australian model
- EA : Saudi Arabia model
- G : Germany model
- EE : East European model
- IT : Italian model

PARTS LIST


NOTE:

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

Note:

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.







Note:

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Part No.

Description

ACCESSORY & PACKING MATERIALS

1-501-369-11	(1100)....ANTENNA
1-501-374-11	ANTENNA, LOOP
 1-555-074-00	(AUS).....CORD, POWER
 1-556-280-00	(E).....CORD, POWER
 1-569-007-11	(E)....ADAPTER, CONVERSION 2P
 1-569-008-11	(EA)....ADAPTER, CONVERSION 2P
 1-575-131-11	(EA, B55CD, 1100).....CORD, POWER
 1-575-706-11	(US, Canadian).....CORD, POWER
1-575-495-11	(1100)....CORD, SPEAKER
3-753-063-11	(E, EA, AUS, AEP)....MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH, CHINESE)
3-753-063-21	(US, Canadian)....MANUAL, INSTRUCTION (ENGLISH, FRENCH)
3-753-063-41	(AEP, G, IT)....MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH, PORTUGUESE, ITALIAN)
3-753-063-51	(EE)....MANUAL, INSTRUCTION (ENGLISH, GERMAN, RUSSIAN, POLISH)
* 3-795-629-11	(AEP)....INSTRUCTION
* 4-936-852-01	CUSHION (LOWER)
* 4-936-853-01	CUSHION (UPPER)
* 4-944-534-01	(E, EA)....INDIVIDUAL CARTON
* 4-944-535-01	(US, Canadian, AUS)....INDIVIDUAL CARTON
* 4-944-536-01	(B55CD)....INDIVIDUAL CARTON
* 4-944-537-01	(1100)....INDIVIDUAL CARTON

COMPACT HI-DENSITY
COMPONENT SYSTEM
SONY®



9-956-252-11

Sony Corporation
Audio Group

English
91B0482-1
Printed in Japan
© 1991. 2

Published by Customer Relations and Service Group

HCD-H50/H55/H1100

SONY SERVICE MANUAL

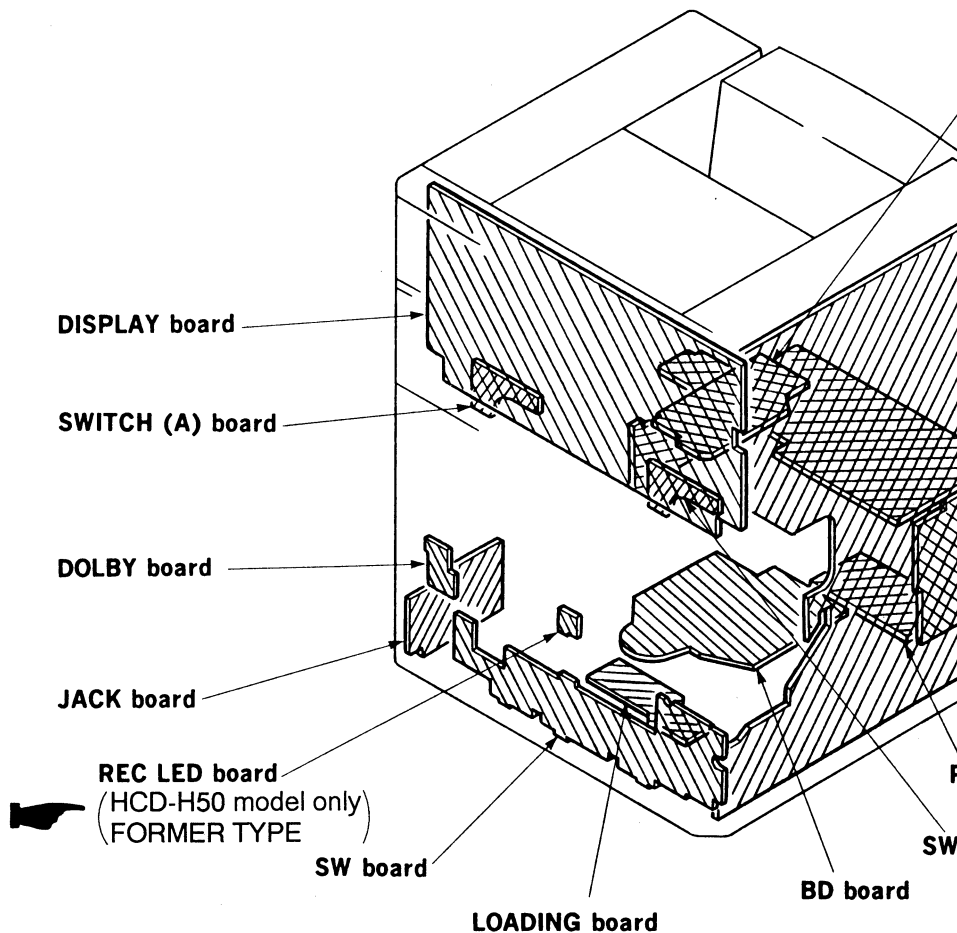
CORRECTION-1

File this Correction with the Service Manual.

US Model
Canadian Model
E Model
Australian Model
HCD-H50
AEP Model
HCD-H55
HCD-H1100
UK Model
HCD-H1100

 : Correct Portion

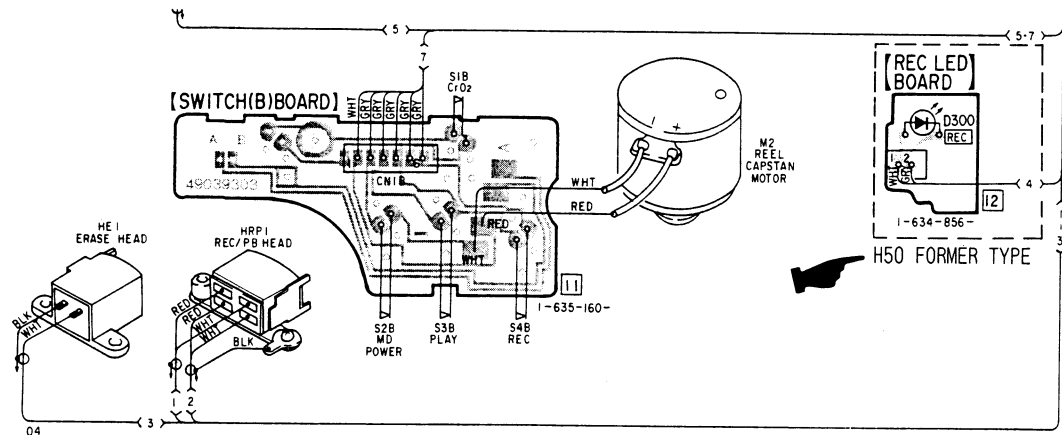
- CIRCUIT BOARDS LOCATION (Service Manual Page 27.)



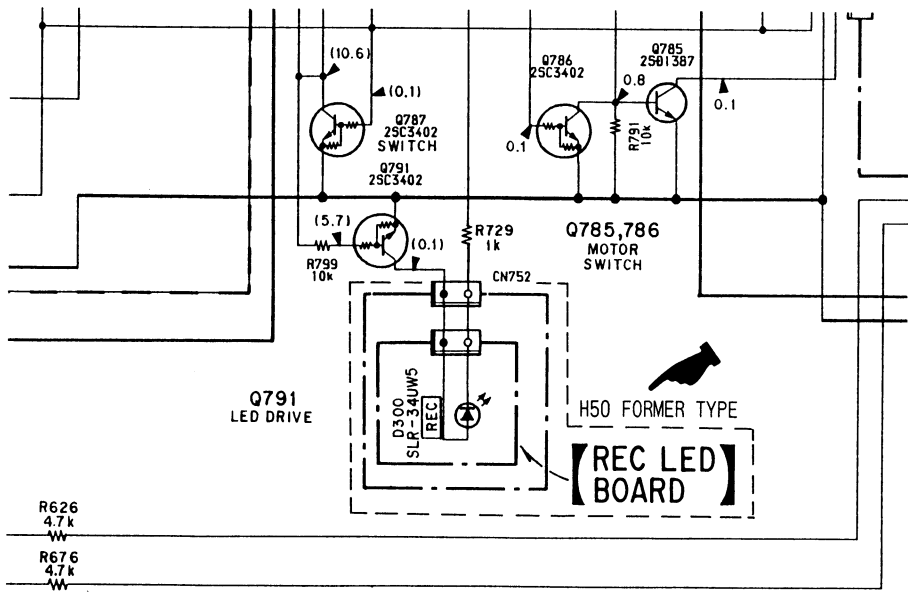
● Semiconductor Location (Service Manual Page 29.)

Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D21(*1)	C-6	Q1(*3)	D-9	Q790	D-13
D201	F-16	Q2(*4)	E-9	Q791	D-14
D205	D-15	Q3(*2)	E-6	Q999	H-15
D206	H-19	Q3(*3)	E-10		
D207	H-20	Q4(*2)	E-6		
D208	I-21	Q4(*3)	E-10		
D209	I-21	Q5(*1)	B-5		
D210	J-21	Q5(*3)	B-9		
D211	J-23	Q6(*1)	E-6		
D300(*2)	I-6	Q6(*3)	E-10		
D601	C-16	Q7(*1)	D-6		
D701	D-13	Q7(*3)	D-10		
D721	C-18	Q8(*1)	D-6		

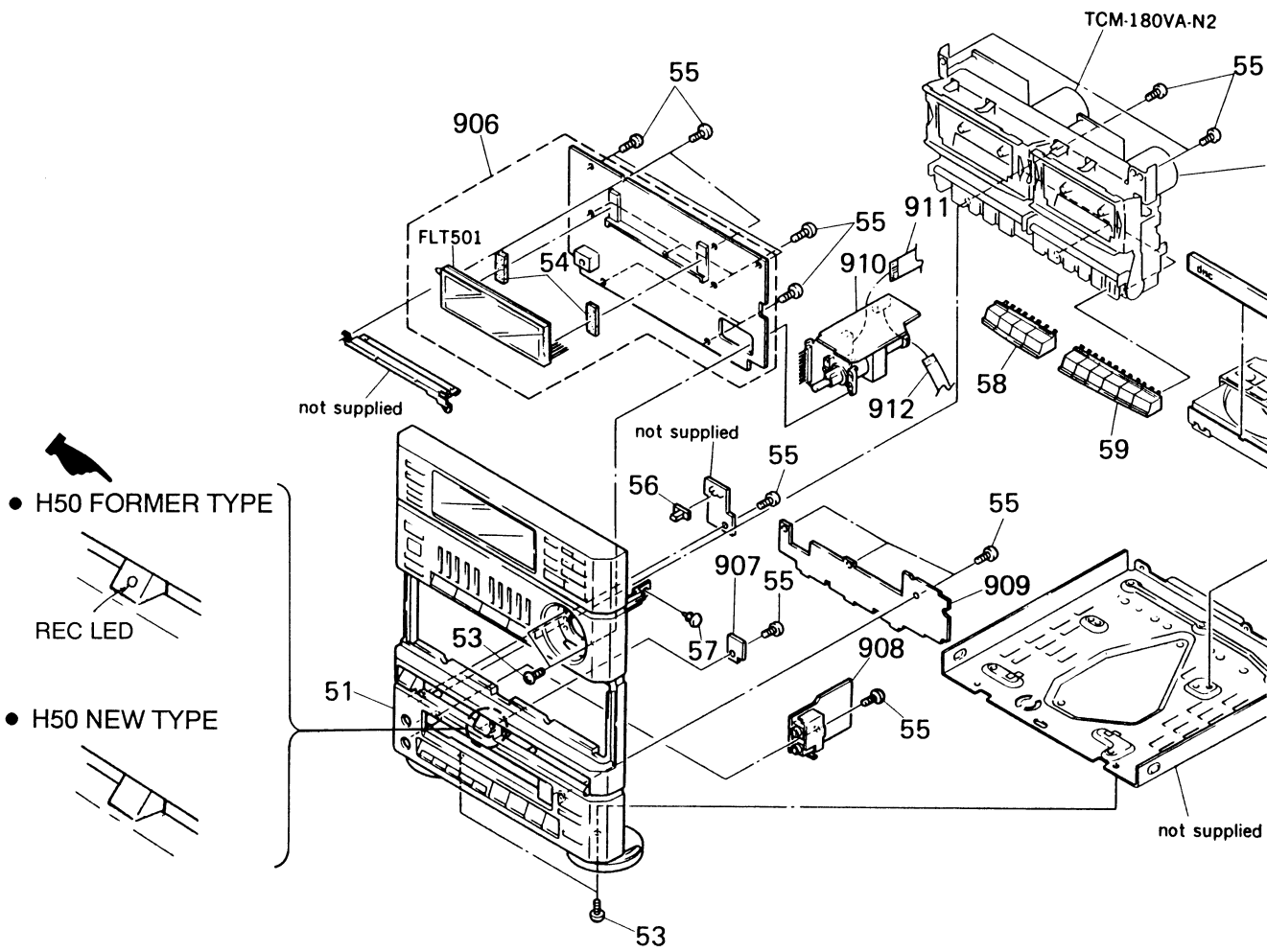
● PRINTED WIRING BOARDS – Tuner/CD/Deck Section – (Service Manual Page 30.)
(Location I – K, 1 – 7)



● SCHEMATIC DIAGRAM – Deck Section – (Service Manual Page 40.)
(Location J – M, 8 – 13)



● FRONT PANEL, MAIN BOARD BLOCK (Service Manual Page 58.)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	X-4941-509-1	PANEL ASSY, FRONT (H50) (FORMER TYPE)		907	* 1-634-856-11	REC LED BOARD (H50) (FORMER TYPE)	
51	X-4941-509-3	PANEL ASSY, FRONT (H50) (NEW TYPE)					
51	X-4941-503-1	PANEL ASSY, FRONT (H55)					
51	X-4941-504-1	PANEL ASSY, FRONT (H1100)					

● ELECTRICAL PARTS LIST

(Service Manual Page 65.)

- * 1-634-854-11 VR BOARD
- * 1-634-856-11 REC LED BOARD (H50) (FORMER TYPE)
- * 1-634-857-11 JACK BOARD

(Service Manual Page 66.)

< DIODE >

- D206 8-719-984-16 LED GL-1HY112-CD (STOP)
- D207 8-719-984-17 LED GL-1EG112-CD (PLAY)
- D208 8-719-912-20 DIODE 1SS120
- D209 8-719-912-20 DIODE 1SS120
- D210 8-719-912-20 DIODE 1SS120
- D211 8-719-912-20 DIODE 1SS120
- D300 8-719-900-19 DIODE SLR-34UW5 (H50) (FORMER TYPE)

HCD-H50/H55/H1100

SONY[®] SERVICE MANUAL

US Model
Canadian Model
E Model
Australian Model

HCD-H50

AEP Model

HCD-H55

HCD-H1100


UK Model

HCD-H1100

CORRECTION-2

Correct your service manual as shown below.

 : indicates corrected portion.

Page	INCORRECT			CORRECT	
	No.	Part No.	Description	Part No.	Description
60	165	3-358-251-01	LEVER (TENSION DETECTION ARM)	3-358-286-01	LEVER (MOTOR LEVER) 
61	205	3-358-286-01	LEVER (MOTOR LEVER)	3-358-251-01	LEVER (TENSION DETECTION ARM) 